MINUTES

OF THE

PHILADELPHIA SOCIETY

FOR THE

PROMOTION OF AGRICULTURE,

FROM ITS

Institution in February, 1785, to March, 1810.

PHILADELPHIA:

JOHN C. CLARK & SON, PRINTERS, 68 DOCK STREET.

1854.

☞ Patrick Byrne's Tavern, Sign of the Cock, (referred to as the place of the first meeting of the Agricultural Society) was situated in Front Street, between Walnut and Spruce Street.

MINUTES.

City of Philadelphia, February 11, 1785.

In a conversation on the subject of Agriculture, and the promoting improvements therein, within the States of America, it was proposed to form a Society for that purpose, to be held in the City of Philadelphia; and, thereupon—

Messrs. George Morgan, George Clymer, Robert Morris, Jno. Cadwalader, Henry Hill, Phil. Dickinson, James Wilson, Thomas Willing, Samuel Powell, Edward Shippen, Samuel Vaughan, Tench Francis, Benjamin Rush, Samuel Meredith, John Nixon, Charles Thompson, Richard Wells, Jno. Jones (Phys.), Adam Kuhn (Phys.), Lambert Cadwalader, Richard Peters, Doctor George Logan, and Jno. B. Bordley, (23), in number twenty-three, were agreed and nominated to be the members thereof; who, or *such of them* as should meet for the purpose, should form a set of Laws for regulating the Society, and also elect, according to such Laws, other members and honorary members. In pursuance whereof, at the house of Patrick Byrne, in Front street, in the City of Philadelphia, on Tuesday the first day of March, 1785, were present:

Mr. Clymer, Powel, Shippen, Vaughan, Francis, Rush, Logan, Bordley, who made choice of Mr. Powel for their Chairman; and, after some general consideration of the views of the Society, they appointed Mr. Clymer and Mr. Bordley to sketch out a Form of Laws, to be presented at the next meeting, at this place, on the next Tuesday.

City of Philadelphia,

Byrne's, Tuesday the 8th March, 1785.

Present: Mr. Powell (Chairman), Shippen, Francis, Cadwalader, Hill, Bordley.

Mr. Clymer being unwell, Mr. Bordley produces, from the Committee, a sketch of Laws for the government of the Society, which was read, and then delivered to the Chairman, to be further considered at the next meeting, on Tuesday next, at this place.

City of Philadelphia,

Byrne's, Tuesday the 15th March, 1785.

Present: Mr. Powel (Chairm.), Clymer, Cadwalader, Francis, Jones, Logan, Bordley.

The Sketch of Laws were again read; and were considered, amended, and enacted; and are as follows:

Laws of the Philadelphia Society for promoting Agriculture; enacted by the said Society on the 15th of March, 1785.

I. The Society shall be styled—*The Philadelphia Society for Promoting Agriculture.*

II. The Society's attentions shall be confined to *Agriculture and Rural affairs;* especially for promoting a greater increase of the products of land within the American States.

III. The Society shall have a *President*, a *Vice President*, a *Treasurer*, a *Secretary* of Correspondence, and an Assistant Secretary, when necessary by the increase of the business of the Society: all of whom are to be elected by the tickets of a majority of the members then present. The President shall be chosen in the first meeting of every year; to serve during that year, and is always eligible.

IV. The *President* shall call especial meetings of the Society; propose matters offered for deliberation; collect and declare the votes that preponderate, and decide the questions. The Vice President shall be elected every year. In the absence of the President, he shall perform the office of President.

V. The *Treasurer* shall be elected annually. He shall keep the accounts, methodically stated in the account books of the Society, and produce them for inspection when called upon. At the last meeting of every year, and also when his office ends, he shall produce a fair and regularly stated account of all receipts, payments and expenditures, and deliver it, together with those books, and all other property of the Society in his hands, to his successor in office, or to the order of the Society.

VI. The *Secretary of Correspondence*, and his assistant, shall be elected annually. They shall have in charge the papers relating to the department, and shall keep them in exact order. They are also to preserve the *letters* and other *papers*, addressed to us or to themselves or others, touching the objects of the Society, together with minutes of the principal *answers*,—to be by them put together at the end of the year.

VII. The regular *Meetings* of the Society are fixed to the first Monday in every month. The *President* may call especial meetings of the Society at any other times, by notice in the public papers.

VIII. The members of this Society shall be distinguished into *Residing Members* or *Members*, and Honorary Members. The twenty-three persons named, at the time of the Society being first proposed to be instituted, as by our minutes of the 11th of February, are the whole of the Society at this time. Members hereafter to be added to the Society shall be elected out of such persons only as shall reside within a ready distance to attend the meetings at Philadelphia with convenience: and these are defined and fixed to be only such as shall reside within ten

miles of the said city, on either side of the Delaware, at the time of the election. All members of agricultural societies, in other States or countries, with whom we shall correspond; and all persons of this and other States or countries, who shall be elected by us for the purpose, shall be *honorary members;* and shall be invited to assist us whenever they come to Philadelphia:—besides, they will always have a right to be present at our meetings, without being invited. Strangers, who have a propensity to agriculture, and wish to attend us, as auditors, may be introduced by a resident member.

IX. No new *member* or *honorary member* shall be elected, except it be at one of the regular and stated meetings; after the person proposed for a residing member has been at the next preceding meeting, openly proposed, and the same has been duly entered in the minutes of the Society. The proposal and the election to be in the absence of the person.

X. *New Rules*, or *alterations* to be made in old rules, shall be proposed and the proposal entered, as above said, at the next preceding regular meeting; and shall thereupon be made, by not less than two-thirds of the members present, who, for the present year, shall not be fewer than thirteen, including the President.

XI. *Publishing* in print, is the most expeditious and effectual way for disclosing knowledge; the Society, therefore, will publish, in print, select collections of memoirs and observations on subjects communicated to them.

XII. The Society shall annually propose *Prizes*, upon interesting subjects, relative to actual experiments and improvements,—and for the best pieces written on proposed subjects. All the resident members shall engage to contribute a certain fixed subscription. All claims of prizes shall be sent in writing, and, when read, the Society shall determine upon every prize, which of the claims are most worthy to be selected for the definitive judgment on a future comparison of them. This judgment is to be given on the first Monday in February. In the same meeting shall be determined, by a plurality of voices, the subjects to be proposed for prizes the next year; which shall always be announced in the public newspapers.

XIII. This Society shall promote the *establishment of other Societies*, or offices of correspondence, in the principal places in the country. The friends of Agriculture shall be invited to assist us with information of experiments and incidents in husbandry. The members of those Societies shall be requested to attend our meetings as often as they come to Philadelphia.

XIV. A *Quorum*, for ordinary business, during the present year only, shall be at least five members; whereof the President or Vice President to be one. The number necessary to constitute a quorum in future years, is referred to the consideration of the first meeting in January, 1786.

XV. On the first meeting of the Society in the year 1786, there shall be *a revision* of the then subsisting Rules; and the same shall stand confirmed, so far as two-thirds of the members present, being at least thirteen, including the President or Vice President, do not revoke or alter the same.

XVI. *New members* and honorary members shall be elected by the use of balls of two different colours; the one to be affirmative, the other negative, to the question; and the Secretary shall issue notice to each person of his being elected, to the following purport.

"On the day of , 178 , A. B. of was elected [a member or honorary member] of the Philadelphia Society for Promoting Agriculture; the Society inviting his assistance. C. D., Secretary."

XVII. All *Motions* shall be addressed to the President whilst the member is standing; and debates are to be concise and to the point.

XVIII. All *Elections* and appointments shall be between the hours of 8 and 9, P. M.

XIX. *Premiums and Prizes* are equally due to persons residing in any of these States, according to the merit of their respective exhibitions. *Honorary Members* may be of any nation in the world.

Moved, that the following persons be balloted for, as *members*, at the next meeting,—and ordered accordingly:

Messrs. George Grey, George Roberts, Jno. Sellers, Thos. Bond, Wm. M'Pherson, Edwd. Duffield, Wm. Jones (Grazier), George Fox, Samuel Howel, Jno. Salter, Ezek. Foreman, Reynold Keen, Chockley James, Saml. Garrigues, John Penn, jr., Jno. Morgan (Phys.), Thos. Mifflin, Timothy Pickering (Col.) 18.

Adjourned, to meet here on Tuesday next.

City of Philadelphia,

Byrne's, Tuesday 22d March, 1785.

Present, Mr. Powel (Chairm.), Hill, Clymer, Cadwalader, Rush, Francis, Bordley.

The proceedings of the last meeting were read; and the persons at that meeting proposed were balloted for, and elected *members* of the Society.

Moved, that the following persons be balloted for, as members, at the next meeting; and ordered accordingly:

Messrs. Thos. Fitzsimmons, Joseph Cooper, Enoch Edwards, Jno. Penn, sen., Edward Milnor, Stephen Paschall, jr., David Sellers, Andrew Doz, Rd. Willing (Col.), Jno. Smith (Walnut st.), Jno. Morris (Phys.), Jno. Ross, Genl. Sinclair.—13.

A letter from Col. Morgan (a member), to Mr. Clymer, was read. A member observed, that however the Society might desire to adopt Col. Morgan's idea of cursory publications being given alternately to the printers, with a request that the other printers would republish them in their respective newspapers, that yet, from repeated experience, he has found, they will not print from each other. It then became a consideration who should be preferred to serve the Society in such publications. The same member observed that, of the Gazette there were near 3000 papers weekly published; of the Journal (Mr. Bradford's), near 1000; of Bailey's Freeman's Journal near 500; which is about the number of Humphreys' Mercury, a new paper, which, with the

Gazette, as another member remarked, is particularly attentive to country affairs, and much read there.

Mr. Singleton, of Talbot, in Maryland, in a letter to Mr. Bordley, speaks of what is popularly called the *chinch-bug*, that destroys districts of Indian corn; and that he means to try quicksilver water for destroying them. A member, on this, said he had made many experiments of the solutions of common salt in water, and also with other materials, on worms or other insects, and that the salt and water proved the most destructive of them. He thinks a weak tincture of the salt is sufficient to destroy them.

The Society will meet here on Tuesday next.

City of Philadelphia,

Byrne's, Tuesday 29th March, 1785.

Present: Mr. Powel, President, Vaughan, Francis, Logan, Clymer, Penn, jr., Bordley.

The proceedings of the last meeting were read; and the persons then proposed were balloted for and elected members of the Society.

Notices to those newly elected members were issued and distributed among the members present, to be forwarded.

Mr. Powel was elected *President* of this Society: Mr. Francis was elected *Treasurer;* and Mr. Pickering *Secretary.*

On motion, it was unanimously agreed that, the members of this Society will contribute, each 7*s.* 6*d.* per quarter: that is to say, 7*s.* 6*d.* by the 1*st of June*, 7*s.* 6*d.* by the 1*st of September*, 7*s.* 6*d.* by the 1*st of December*, and 7*s.* 6*d.* by the 1*st of March* next; to be paid to the Treasurer, for the use and purposes of the Society, by their orders.

Messrs. Hall and Sellers's Gazette, and Mr. Humphreys's Mercury, being weekly papers, much countenanced, and read in the country; and those printers having expressed a desire to publish pieces in husbandry adapted to newspapers, that the Society shall require, provided they respectively have the preference, *alternately;* in which case they will publish the same matter after each other; the Society will thereupon order their pieces to those printers in such *alternate* order.

A subject and terms for a proposed premium, was offered by Mr. Clymer; upon which, Mr. Clymer, Mr. Francis and Mr. Bordley, were appointed a committee to consider it, and report to the Society, making therein such additions and alterations as may be proper.

Moved, that the following persons be balloted for, as members, at the next meeting; and ordered accordingly:

Messrs. Jno. F. Mifflin, Jno. Vaughan, Robt. Milligan, S. P. Griffits (Phys.), Doctor Parker, Edward Burd, Dr. White, Lev. Hollingsworth, Humph. Marshall, James Logan, Godfrey Twells.—11.

The Society adjourns, to meet here on Tuesday next.

City of Philadelphia,

Byrne's, Tuesday the 5th April, 1785.

Present: Mr. Powel (Pres.), Francis (Treas.), Pickering (Sec.), Vaughan, Ross, Clymer, Nixon, Hill, Milner, J. Vaughan, Bordley.

The proceedings of the last meeting being read, the persons then proposed were balloted for and elected members: notices whereof were *issued and distributed among the members* present, to be forwarded by them.

Mr. Clymer produces from the Committee, "An Address to the Public, from the Society, with a Summary of its Laws, and a List of Premiums to be offered; which was read, altered, and ordered to be printed. Mr. Clymer and Mr. Bordley to superintend the same, in pamphlets, eight or ten hundred. [A printed copy to be *preserved*, in the Rolls].

Moved, that the following persons be balloted for at the next meeting, and ordered accordingly, as members:

Messrs. Dan. Clymer, Chas. Humphreys, T. Penrose, Josh. Howell, Jno. Barclay, Jacob Morgan, Henry Drinker, Jacob Barge, Robert Irwin, Wm. Shipley, Col. S. Miles, Wm. Hall (Print.), Jno. Lukens, Edwd. Physick, Jno. Willcocks, Michl. Hillegas.—16.

And, on motion, the following were ordered to be balloted for, as *honorary* members:

Messrs. Jo. Shippen, jr., Jno. Singleton, Maryland, and Governeur Morris.

City of Philadelphia,

Byrne's, Tuesday the 5th April, 1785.

Present: Mr. Powel, Pres., Francis, Treas., Pickering, Secretary, Vaughan, Hill, Bordley, Clymer.

The proceedings of the last meeting being read, the persons then nominated were balloted for and elected members and honorary members.

The following gentlemen were then nominated for members, to be balloted for at the next meeting:

His Excellency John Dickinson, Esq., Mr. Tench Coxe, Samuel Hodgdon, Isaac Gray, Josiah Hewes —5.

And the following for honorary members:

Mr. Richard Spriggs, Maryland; Michael Earle, Maryland; Robert Brown, Maryland, James Tilghman, Kent Co. Maryland, Wm. M'Clay, Pennsylvania; Matthias Slough, Esq. Pa.; Edward Hand, Esq. Pa.; —— Nevil, Esq., Pa.; James Ewing, Esq., Pa.; John Armstrong, Esq., Pa.; Anthony Wayne, Esq., Pa.; John Montgomery, Carlisle, Pa.; Robert Magaw, Esq., Carlisle, Pa.; Henry Miller, York Co., Pa.; Lindsey Coates, Montgomery Co., Pa.; James Morris, do., Pa.; Frederick A. Muhlenburgh, Montgomery Co., Pa.; John Kidd, Bucks Co., Pa.; William Henry, Esq., Lancaster, Pa.; Elias Boudinot, Esq., New Jersey; Wm. Livingston, Esq., Gov. of N. J.; Hon. John Jay, Esq., New York; Hon. Robt. R. Livingston, Esq., N. Y.; Hon. Jas. Duane, Esq., N. Y.; His Excellency George Clinton, Esq., N. Y.; Hon. Philip Schuyler, Esq., N. Y.; Hon. Baron de Steuben; Jeremiah Wadsworth, Esq., Connecticut; Nathl. Greene, Esq., Rhode Island; Benj. Lincoln, Esq., Massachusetts; James Bowdoin, Esq., Mass.; Saml. Phillips, jr. Esq., Mass.; Paine Wingate, Esq., New Hampshire; Rev. Robert Smith, South Carolina; John Rutledge, Esq., S. C.; Thomas Bee, Esq., S. C.; Ædanus Burke, Esq., S. C.; John Bannister, Esq., Virginia; John Augustus Washington, Va.

City of Philadelphia,

Byrne's, Wednesday, April 27, 1785.

Present: Mr. Powell, Pres., Bordley, Francis, Meredith, Vaughan, Penn, Keen, G. Clymer, Nixon, Rush, Hill, Milligan, J. F. Mifflin, Pickering.

The proceedings of the last meeting being read, the persons then nominated were balloted for, and elected members and honorary members.

The following gentlemen were then proposed for honorary members, to be balloted for at the next meeting, viz:

Thomas Milward, of the Island of Jamaica; Wm. Hemsley, Queen Anne's county, Maryland; Edmund Jennings, Esq., London; John Swift, Bucks County, Pennsylvania; Wm. Ervine, Esq., Carlisle, Pa.

And the following for members, viz:

Messrs. Samuel Morris, Robert Roberts, Thomas Morris, John M.

Nesbitt, John Swanwick, John Shee, Dr. David Jackson, Mr. Reuben Haines, Nathaniel Falconer, Francis Gurney, Wm. Lewis, Esq., Wm. Bradford, Esq., Joseph Carson, Jacob Rush, Esq., Samuel Hudson, Joseph Redman, Thomas Franklin, Sharp Delany, John Lardner, Richard Bache, Jacob Hiltzheimer, Matthew Clarkson, Thomas Prior, Daniel Heister, Peter Aston, Thos. M'Kean, Esq., Wm. Clifton, Dr. Wm. W. Smith—28.

Voted, that Mr. S. Powell, Mr. T. Francis, Mr. G. Clymer and Mr. T. Pickering be a Committee of Correspondence; that notice thereof be published in the newspapers; and that correspondents be requested to address their communications to the Secretary.

Voted, that the Committee of Correspondence publish such communications as they shall think proper.

Voted, that the Committee of Correspondence be a Committee of Accounts, and give orders on the Treasurer for the payment of the contingent expenses of the Society.

City of Philadelphia,

Byrne's, Monday, May 2d, 1785.

Present: Mr. Powell, President, Vaughan, Bordley, Logan, Meredith, Pickering,

The proceedings of the last meeting were read, and the gentlemen then nominated were duly elected members and honorary members, respectively.

The following gentlemen were proposed as members and honorary members, to be balloted for at the next meeting,

Members.—Luke Morris, Saml. Pleasants.

Honorary members.—Ralph Izard, Esq., S. Carolina; Charles Logan, Virginia; John Pickering, Esq., Massachusetts; Oliver Wolcott, Esq., Connecticut; Wm. Blake, Esq., Island of Jamaica; Dr. John Warren, Massachusetts; Dr. Benjamin Waterhouse, Mass.; Dr. Aaron Dexter, Mass.

May 14, 1785.

Mr. Bordley presented to the Society sixty copies of his Summary View of Crops, &c., to be distributed among the members who had not already been furnished with them.

City of Philadelphia,

Carpenters' Hall, Monday June 6, 1785.

Present: Mr. Powell (President), Vaughan, Clymer, Milligan, W. W. Smith, Pickering.

The proceedings of the last meeting were read, and the gentlemen then nominated for members and honorary members were duly elected.

The following gentlemen were then proposed for members and honorary members, to be balloted for at the next meeting.

For members.—Mr. Cadwallader Morris, Mich. Morgan Obrien, George Mifflin, John Dunlap, Nathan Sellers, John Cummins.

For honorary members.—Hon. Henry Wynkoop, Esq., Bucks county; Hon. Danl. Carrol, Esq., Maryland; Hon. Charles Carroll, Esq., of Carrolton, Maryland; Hon. Wm. Hindman, Esq., of Md.; Hon. Saml. Hughes, Esq., of Md.; General George Washington.

A letter of the 9th of May, from Mr. Robert Brown, of Maryland, stating what he conceived to be an error in the common mode of cultivating Maize, and suggesting a remedy, was read; together with some notes of Mr. Bordley's, on the culture of potatoes. The Society judged the communications proper to be published, and the Committee of Correspondence agreed on the extracts to be printed accordingly.—*See Hall and Sellers' paper of June* 15.

City of Philadelphia,

Carpenters' Hall, July 4, 1785.

Present: Mr. Powel (Pres.), Clymer, Logan, Milligan, Pickering, Dr. W. W. Smith.

The proceedings of the last meeting were read, and the gentlemen then proposed for members and honorary members were duly elected.

The President was desired to address General Washington on the subject of his election as an honorary member of the Society, and inclose to him the certificate thereof, with the Society's printed address, and Mr. Bordley's Summary View of the Courses of Crops, &c.

The following gentlemen were then nominated for members and honorary members, to be balloted for at the next meeting, viz:

Members.—Mr. Joseph Mifflin, Jonathan Mifflin, Isaac Melcher, John Bayard, Isaac Snowden, Azariah Horton.

Honorary members.—Col. Wm. Howard, Baltimore; John Collins, Esq., Rhode Island; Wm. Floyd, Esq., Long Island.

City of Philadelphia,

Carpenters' Hall, August 1, 1785.

Present: Mr. Powell (Pres.), Milligan, Nixon, G. Clymer, Ross, R. Morris, Jno. Mifflin, Bache, Hodgdon, Francis, Jno. Jones, Fitzsimmons, T. Pickering, and Mr. Governeur Morris, an honorary member.

The proceedings of the last meeting were read.

Then the gentlemen who at the last meeting had been proposed for members and honorary members, were balloted for; but only the following were elected.

Members.—Joseph Mifflin, Jonathan Mifflin, Isaac Melcher, Azariah Horton.

Honorary members.—Col. Wm. Howard, of Baltimore; John Collins, Esq., Rhode Island; Wm. Floyd, Esq., of Long Island.

The President informed the Society that, agreeably to their desire, at the last meeting, he had addressed General Washington on the subject of his election as an honorary member of the Society, and inclosed the papers there mentioned; to which he had received an answer; which was read, and is filed with the papers of the Society.

A letter from John Okely, Esq., of Bethlehem, dated July 15, 1785, was read. He proposes for the consideration of the Society, the expediency of offering premiums:—

1. To encourage the use of oxen, instead of horses, in the business of agriculture.

2. For the recovering of gullied and worn out fields; and suggests, that where such fields are so gullied as to be irrecoverable for the purposes of tillage, they may be applied to to the growth of various kinds of timber.

3. To encourage the planting of hedge-rows.

Two letters from Mr. Bordley were read. In one, dated July 19, 1785, he communicates his experiments on sowing wheat in clumps, at 6 by 8 inches distance. Intimates the expediency of procuring the die for striking the medals; and that it may most expeditiously and cheaply be obtained from London. In the other, dated July 27th, he communicates Mr. Marshall's mode of registering crops, in a way that exhibits them as experiments.

The Society ordered that 500 copies of the laws of the Society be printed for the use of the members; and that the Committee of Correspondence be desired to get them printed accordingly.

Mr. Powell, Mr. Geo. Clymer, Hr. Hodgdon and Mr. Milligan were appointed a committee to form a device for a die to strike the

medals, and inquire whether the same can be executed in Philadelphia, and on what terms; and report to the Society at their next meeting.

The following gentlemen were proposed for honorary members:

Jacob Winey, of Reading; John Curwen, Esq., of Chester county; Edward De Coursey, of Maryland; Wm. Paca, Wm. Hayward, Edward Lloyd, Esquires, of Maryland.

City of Philadelphia,

Carpenters' Hall, Sept. 5, 1785.

Present: Mr. Powell, (Pres.), Dr. Wm. W. Smith, Mr. S. Hodgdon, S. Pleasants, T. Pickering.

The proceedings of the last meeting were read. The gentlemen then proposed for honorary members were now duly elected.

John Okely, Esq., of Bethlehem, was now proposed, and elected an honorary member, under the 9th article of the laws of the Society, admitting the nomination and election of an *honorary* member at one and the same meeting.

The committee appointed at the last meeting reported a device for a die to strike the medals, and the price at which the same can be executed in Philadelphia, viz:

The device to be composed of two figures:

1st. Industry, driving a yoke of oxen in a plough, and guiding it with both his hands.

2d. Plenty, following, crowned with the *New Constellation*, and supporting over her right arm a Cornucopiæ, teeming with the choicest products of the earth. Over the figures the Sun in meridian splendour. On the exergue this motto—Interest Omnium.

Mr. Reynolds will make the die, in the best manner, for twenty guineas; but says it can be done in an inferior manner for fifteen, or ten guineas.

To prevent any delays in the proceedings of the Society, in case the President and Vice President should both be absent, the following addition to the 4th Article of the Laws of the Society was proposed, viz.

That at any meeting of the Society, when both the President and Vice President are absent, the members present shall elect one of their number to preside; and the member so elected shall, at such meeting, perform the office of President.

The following gentlemen were proposed for members and honorary members.

Honorary members.—Col. Richard Mead, William Holt, Esq., of Virginia.

Members.—Mr. Joseph Anthony, Mordecai Lewis, Joseph Swift, Robert Hare, Thomas Morris (elected May 2d), Isaac Bartram, Moses Bartram, Wm. Bartram, Nathl. Falconer (elected May 2d), Frederick Phile, Thomas Clifford.

City of Philadelphia,

Carpenters' Hall, October 3, 1785.

Present: Mr. Powell (Pres.), G. Clymer, Milligan, Hodgdon, J. F. Mifflin, Pickering.

The proceedings of the last meeting were read, and the persons then proposed for members and honorary members were duly elected.

Mr. Adam Gray, of Maryland; Col. Nicholas Rogers, of Baltimore, and Gen. Henry Knox, were at the present meeting severally proposed as honorary members, and duly elected: and—

Doctor Benjamin Franklin was proposed for a member, to be balloted for at the next meeting.

City of Philadelphia,

Carpenters' Hall, November 7, 1785.

Present: Mr. Powell (Pres.), Vaughan, Clymer, Logan, Pleasants, Pickering.

The proceedings of the last meeting were read, and Doctor Franklin was then balloted for and elected.

The following gentlemen were then proposed for honorary members, viz:

Samuel J. Atlee, Esq., of Lancaster; Wm. Geddes, Esq., Delaware state; Major Samuel Hale, of Portsmouth, New Hampshire; Rev. Saml. M'Clintock, of Greenland, N. Hampshire; Rev. Jeremy Belknap, of Dover, N. Hampshire; Thomas Riché, of Bucks County; Rev. David Griffiths, of Virginia; Charles Biddle, Esq.

And the following for members, viz:

Frederick Smythe, William Jackson, Major Budd Dunn, Richard Wister, Wm. Sellers, Wm. Morris. Luke Morris, jr.

City of Philadelphia,

Carpenters' Hall, December 5, 1785.

Present: Mr. Powell (Pres.), Mr. George Clymer, Dr. Logan, Mr. Daniel Clymer, Hill, Penn, jr., Meredith, General Wayne, Mr. S. Vaughan, J. F. Mifflin, Hodgdon, Joseph Redman, Pickering.

The proceedings of the last meeting were read, and the gentlemen then proposed for honorary members and members were balloted for and duly elected.

Read a letter, dated Nov. 2, from the Hon. William Drayton, Esq., Chairman of the Committee of the South Carolina Society of Agriculture, inclosing a few copies of their address and rules, and soliciting a correspondence with this Society. Whereupon—

Ordered, That the Committee of Correspondence answer that letter, transmit a few copies of our Address and Rules, and request of the South Carolina Society a similar correspondence.

The President and Mr. G. Clymer presented two communications; one, marked No. I., "An Essay on a Farm-Yard System;" being a claim for the premium No. 2.—The other, marked No. II., describing a method for counteracting the effects of frost in heaving or spewing up ground, and thereby exposing the roots of plants to injury or destruction; being a claim for premium No. 3.

The following gentlemen were proposed for a member and honorary members, to be balloted for at the next meeting, viz:

For a member.—William Brown, merchant.

For honorary members.—His Excellency, John Langdon, Esq., President of N. Hampshire; Mr. Jonathan Williams, jr., of Boston; General Daniel Brodhead, of Reading.

City of Philadelphia,

Carpenters' Hall, January 2, 1786.

Present: Mr. Powell (Pres.), Mr. G. Clymer, I. Melcher, J. Wilson, A. Horton, J. Hiltzheimer, S. Hodgdon, S. Garrigues, T. Pickering.

John Langdon, Esq., Jonathan Williams, jr., and Daniel Brodhead, Esq., who were at the last meeting proposed for honorary members, were now balloted for, and duly elected.

Moved, and agreed, to appoint a committee to revise the Laws of this Society, and report at the adjournment of this meeting. That Mr. Powell, Mr. G. Clymer and Mr. Pickering be this committee.

Agreed to adopt the device for a die reported by the committee on the 5th of September last; only substituting this motto, "Venerate the Plough—for that of "Interest Omnium;" and that the same committee get the die executed in the *best manner*, by Mr. Reynolds.

The following gentlemen were then proposed for honorary members, viz:

Mark Bird, and Philip Renselaer, of Albany.

And the following gentlemen for members:

William Stanly, Hugh Ferguson, Leonard Stoneburner, Joseph Ferree, of Germantown.

Agreed, That this meeting be adjourned to Tuesday evening, the 10th instant, at seven o'clock.

City of Philadelphia,

Carpenters' Hall, January 10, 1786.

The Society met pursuant to their adjournment.

Present: Mr. Powell (Pres), Col. Melcher, Mr. Hodgdon, Obrien, Hiltzheimer, P. Aston, Horton, G. Clymer, Bradford, Kuhn, Dr. Jno. Morris, Garrigues, Twells, Joseph Mifflin, Richd. Wister, Dr. Wm. S. Smith, Mr. Swanwick, Hill, Dr. Logan, Mr. Jonathan Mifflin, John F. Mifflin, Penn, jr., Meredith, Pickering.

The report of the committee for revising the laws was read and considered, and, with some amendments and additions, was agreed to, as follows:

Laws of The Philadelphia Society for Promoting Agriculture; *as revised and enacted by the said Society, on the tenth day of January*, 1786.

I. The Society shall be styled—The Philadelphia Society for Promoting Agriculture.

II. The Society's attention shall be confined to *Agriculture and Rural affairs;* especially for promoting a greater increase of the product of land within the American States.

III. The Society shall have a *President*, a *Vice President*, a *Treasurer*, and a *Secretary;* and an *Assistant Secretary*, when the increase of business shall require it; all of whom shall be annually elected, by the tickets of a majority of the members present at the stated meeting of the Society in January; the persons so elected to continue in office one year, and until others shall be chosen in their stead. And in case of any vacancy by death, resignation, or otherwise, the same may be supplied by a new election, to be made at any stated meeting of the Society; the person thus newly elected to serve the remainder of the year.

IV. At all meetings of the Society, the President shall exercise the usual duties of that office: all motions shall be addressed to him: and on all questions he shall collect and declare the votes. He shall also have power to call special meetings of the Society, by notice published in at least two of the city newspapers. In his absence, the same duties shall be performed by the Vice President. And if it happen, at any meeting of the Society, that both the President and the Vice President be absent, the members present (being a quorum to constitute a regular meeting for the business to be transacted), may choose a Vice President for that meeting.

V. The Treasurer shall keep the accounts methodically stated in the books of the Society, and, when called upon, produce them for inspection. At the last meeting of every year, and also whenever his office ends, he shall produce a fair and regularly stated account of all receipts, payments and expenditures, and deliver it, together with those books, and all other property of the Society, in his hands, to his successor in office, or to the orders of the Society.

VI. The Secretary and his Assistant shall have in charge all the books and papers of the Society, and keep the same in exact order. They shall also register all letters which shall be written by the Committee of Correspondence, or by themselves by order of the Committee.

VII. At the annual meeting of the Society in January, shall be chosen a *Committee of Correspondence*, to consist of five members, any three of whom to be a quorum, for the purpose of corresponding with any other society, or persons, touching the objects which this Society has in view. The same members shall be a *Committee af Accounts*, to receive and adjust all claims against the Society, for its contingent expenses, and give orders on the Treasurer for payment.

VIII. The *Stated Meetings* of the Society shall be on the first Tuesday of every month.

IX. The members of the Society shall be distinguished into *Residing Members*, or *Members*, and *Honorary Members*. The twenty-three persons named when the Society was first proposed to be instituted, and whose names are entered on the minutes of the eleventh of February, 1785, are *Members*, according to the 8th article of the first laws of the Society, enacted on the 15th of March, 1785. All *Members* afterwards added to the Society, were, and shall continue to be, of persons residing within a convenient distance to attend the meetings of the Society at Philadelphia: and these are defined to be such only as, at the time of election, reside within ten miles of the said city, on either side of the Delaware. All members of Agricultural Societies, in other States and countries, with whom we shall correspond, and all persons of this State, and of other States and countries, who shall be elected by us for the purpose, shall be *Honorary Members;* and are hereby invited to assist at our meetings whenever they come to Philadelphia. Strangers who have a propensity to agriculture, and desire to be present as auditors, may be introduced by a resident member.

X. New members and honorary members shall be elected by the use of balls of two different colours; the one to be affirmative, the other negative to the question. And the Secretary shall issue notice to each person of his being elected, to the following purport:

On the day of , 17 , A. B., of , was elected [a member, or honorary member] of the Philadelphia Society for promoting Agriculture; the Society inviting his assistance.

C. D., Secretary.

XI. All elections and appointments shall be between eight and nine o'clock in the evening; at one of the stated meetings of the Society. And no person shall be elected a member or honorary member, unless at the next preceding meeting he shall have been openly proposed, and such nomination duly entered in the minutes of the Society. The nomination and election to be in the absence of the candidate.

XII. The Society shall annually propose *Prizes*, upon interesting subjects, relative to actual experiments and improvements, and for the best pieces written on proposed subjects. And in order most effectually to disseminate the knowledge of useful discoveries and improvements in husbandry, the Society will, from time to time, publish collections of memoirs and observations, selected from such communications as shall be made to them. To promote these views, the friends of agriculture are invited to assist the Society with information of experiments and incidents in husbandry.

XIII. All claims of prizes shall be sent in writing; and, when read, the Society shall determine which of the claims, relative to each prize, shall be selected for their definitive judgment, on a future comparison. This judgment is to be given at the stated meeting on the first Tuesday in February. If it happen, in any case, that there be no *competition* for a prize, but only a *single claim*, the Society will consider such claim. And if the claims or claim be supported, answerably to the views and just expectations of the Society, the prize proposed shall be decreed. *Premiums* and *Prizes* are equally due to persons residing in any part of the United States, according to the merit of their respective exhibitions.

XIV. For the purpose of defraying the necessary expenses of the Society, for premiums and prizes, books on agriculture, improved instruments on husbandry, and other important objects, and contingencies, every member shall annually pay to the Treasurer a *contribution* of four dollars. This contribution shall be considered as due and payable at or before the last day of December in every year. And, at the first meeting in January, the Treasurer shall lay before the Society a list of the members, specifying who have and who have not paid their contributions; and any member, whose contribution shall be found to be more than one year in arrear, after the same shall have become due and payable, as aforesaid, provided payment thereof has been personally demanded of him by the Treasurer, or collector authorized by him for the purpose, such member shall be considered as withdrawing from the Society, and be no longer deemed a member of it; and the same shall be entered in the minutes.

XV. New rules, or alterations to be made in old rules, shall be proposed, and and the proposal entered in the minutes, at the next preceding regular meeting; and may then be made, by not less than two-thirds of the members present, who shall not be fewer than thirteen, including the President, or Vice President.

XVI. A quorum for ordinary business shall consist of at least five members, including the President or Vice President.

XVII. When any part of the Society's funds is to be disposed of (excepting for ordinary contingent expenses), the same shall be done at a stated, or special meeting, after a notification of such intended appropriation has been published in two of the city newspapers, at least one week before such meeting shall be held; when thirteen members, including the President or Vice President, shall be necessary to constitute a quorum.

XVIII. Still further to advance the objects of this Institution, the Society will promote the establishment of other similar Societies in these States.

XIX. On the first meeting of the Society in January, in every year, there shall be a revision of the then subsisting rules; and the same shall stand confirmed, so far as two-thirds of the members present, being at least thirteen, including the President or Vice President, do not revoke or alter them.

Mr. William Brown (who was proposed at the meeting in December), was balloted for and duly elected a member.

Capt. John Barry was proposed for a member; and Thomas Paine, Esq. and Col. Edward Carrington, and Mr. Bernard Dougherty, for honorary members.

Mr. Clymer moved that a skilful English farmer, acquainted with the best improved modes of husbandry in England, be sent for, and employed on a farm, to be rented by the Society, in the vicinity of Philadelphia, for a term of years; for the purpose of experimenting the practicability and usefulness of those modes. Whereupon it was moved and seconded, That a committee of five be appointed to consider of that motion, and report at the next meeting: and Mr. G. Clymer, Mr. Hill, Dr. Logan, Mr. S. Meredith and Mr. Twells were accordingly appointed.

The two claims for the premiums, numbered two and three, which were read at the meeting in December, were again read.

The following members were chosen officers of the Society for the ensuing year, viz:

Mr. Powell, President; Bordley, Vice President; Francis, Treasurer; Pickering, Secretary.

City of Philadelphia,

Carpenters' Hall, February 7, 1786.

Present: Mr. Powell (Pres.), Horton, J. F. Mifflin, G. Clymer, Dr. Kuhn, Vaughan, Twells, Pleasants, Hiltzheimer, Lardner, Hodgdon, Clarkeson, Melchor, Meredith, Obrien, Fitzsimons, Pickering.

The Essay on "A Farm Yard," being a claim for the Prize No. 2, was read and considered; and on the question—Whether the Society will decree a medal to the author of it—

Voted, unanimously, in the affirmative.

On the question whether the medal should be of gold or silver?—

Voted, That it be of gold.

The sealed paper, with the mark corresponding to the said essay, was then opened, when it appeared that *Col. George Morgan* was the author of it.

Ordered that Mr. Clymer, Mr. Meredith and Mr. Pickering be a

committee to write to Col. Morgan, and request such further explanations as may be proper, to prepare his essay for publication.

The Essay "On the means of counteracting the injurious effects of Frost in spewing land," &c., being a claim for the prize No. 3, was read and considered; and on the question—

Whether the Society will decree a medal to the author of this essay? it passed unanimously in the negative.

N. B. The mark of distinction on this essay was the Society's motto of their Address, viz:

"He who can make two ears of corn grow where only one grew before, ranks as a benefactor to society before all the heroes that ever existed."

Agreed, That Mr. Clymer, Mr. Meredith and Mr. Pickering be a committee to consider of the premiums proper to be proposed the ensuing year, and report at the adjournment.

The committee appointed at the last meeting, to consider of Mr. Clymer's motion to employ an English farmer for the purpose of introducing their improved modes of husbandry, made report in favour of that motion; and suggested the expediency of hiring a sum of money to defray the expense thereof, so far as the Society's funds should be deficient.

Mr. Vaughan handed to the Society a letter from Col. George Morgan, inclosing Mr. Beverly's directions for the culture of tobacco, which are filed with the letter.

Col. Mark Bird, of Pennsylvania, and Philip Renselaer, of Albany, proposed at the meeting, Jan. 2d, were balloted for and duly elected honorary members. Thomas Paine, Esq., and Col. Edward Carrington, proposed at the adjournment of that meeting, on Jan. 10th, were also duly elected honorary members. And William Stanly and Hugh Ferguson, proposed the 2d of January, and Capt. John Barry proposed the 10th, at the adjournment, and Leonard Stoneburner and Joseph Ferree, of Germantown, proposed Jan. 2d, were severally balloted for, and duly elected members of the Society.

The following gentlemen were now proposed for honorary members.

Count Castiglioni, John Cosens Ogden, of New Haven, Connecticut; James Vaux, of Philadelphia county; Col. Francis Nichols, Saml. Potts, of Pottsgrove;—and

For members—John Donaldson, Gen. Peter Muhlenburgh, Duncan Ingraham, jun., Dr. Hugh Hodge.

Adjourned to Tuesday evening, the 14th inst.

ADJOURNMENT.

CITY OF PHILADELPHIA,

Carpenters' Hall, February 14, 1786.

Present: Mr. Powell (Pres.), Dr. Kuhn, Mr. Pleasants, Hodgdon, Millegan, Faulkner, Horton, Pickering.

Read a letter (without date) from Col. George Morgan, inclosing the directions of Robert Beverly, Esq., of Blandfield, Virginia, for the culture of tobacco.

Read a paper of Mr. Humphry Marshall's (presented by Mr. Vaughan), containing observations on the propriety and utility of applying botanical knowledge to the advancing of rural economics; particularly in ascertaining, by experiments, the various plants which may be used in feeding cattle. Hints the utility of a garden allotted for the culture of such plants as it might be proper to subject to experiments in agriculture, &c.

Agreed to continue all the prizes proposed last year, allowing all claims which should have been presented by the 20th of Dec. 1785, to be delivered by the 20th of Dec. 1786. Agreed, also, on four additional prizes, numbered 14, 15, 16, 17. These and the former here follow.

PRIZES

Proposed by the Society on the 5th of April, 1785.

1. For the best experiment made of a course of crops, either large or small, on not less than four acres, agreeably to the principles of the English mode of farming, mentioned in the foregoing address,—a piece of plate, of the value of two hundred dollars, inscribed with the name and the occasion: and for the experiment made of a course of crops next in merit,—a piece of plate, likewise inscribed, of the value of one hundred dollars. Certificates to be produced by the 20th of December, 1790.

2. The importance of complete farm or fold yards, for sheltering and folding cattle, and of a preferable method of conducting the same, for procuring great quantities of compost, or mixed dung and manure, within the husbandman's own farm, induces the Society to give, for the best design of such a yard, and method of conducting it, suitable to this climate, and circumstances of common farmers,—a gold medal:—and, for the second best, a silver medal. The design to be presented to the Society by the 20th of December, 1786.

3. For the best method of counteracting the injurious effects of frost, in heaving or spewing up ground, and of exposing roots of wheat to the drying winds of the spring,—founded in experience, a gold medal:—and, for the second best, a silver medal. The account to be presented to the Society by the 20th of December, 1786.

4. The best method of raising hogs, from the pig, in pens, or styes, from expe-

rience, their sometimes running in a lot or field not totally excluded, if preferred,—a gold medal:—and, for the second best, a silver medal. To be produced by the 20th of December, 1786.

5. The best method of recovering worn-out fields to a more hearty state, within the power of common farmers, without dear or far-fetched manures; but by judicious culture, and the application of materials common to the generality of farmers, founded in experience,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1786.

6. The best experiment in trench-plowing, not less than ten inches deep,—and account of the effects thereof, already made or to be made, on not less than one acre,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1786.

7. The best field of clover on a farm, quality and quantity to be considered with the quantity of arable of the whole farm, and previous state and quality of the soil; not less than ten acres of clover,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1787.

8. The greatest quantity and variety of good manure collected in one year, and best managed, from materials common to most farms; regard to be had to the proportion and goodness of such manure, and the quantity and goodness of the arable and grass-lands of the whole farm on which it is obtained,—a gold medal;—and, for the second best, a silver medal. To be claimed by the 20th of December, 1787.

9. The best information, founded in actual experience, for preventing damage to crops by insects; especially the wheat-fly, the pea-bug and the corn chinch-bug or fly,—a gold medal;—a silver medal for the second best. To be produced by the 20th of December, 1786.

10. The best comparative experiments on the culture of wheat, by sowing it in the common broad-cast way, by drilling it, and by setting the grain, with a machine, equidistant; the quantities of seed and produce, proportioned to the ground, being noticed,—a gold medal;—for the second best, a silver medal. The account to be produced by the 10th of January, 1787.

11. An account of a vegetable food that may be well procured and preserved, and that best increases milk in cows and ewes, in March and April, founded in experience,—a gold medal;—for the second best, a silver medal. To be produced by the 10th of January, 1787.

12. The best method of raising the white and other thorns from seed, in *clay* ground, from experience,—a gold medal;—the second best, a silver medal. To be produced by the 20th of December, 1787.

13. The greatest quantity of ground, well fenced, in locust trees or poles, of the sort used for posts and trunnels, growing in 1789, from seed sown after this time, not less than one acre, nor fewer than 1500 per acre,—a gold medal;—for the second, a silver medal. To be claimed in December, 1789.

PRIZES

Proposed by the Society, February 14, 1786.

14. The Society, believing that very important advantages would be derived from the general use of oxen, instead of horses, in husbandry and other services; and being desirous of facilitating their introduction into all these States; persuaded, also, that the comparative value of oxen and cows must very much depend on the qualities of their sires and dams; and that, by a careful attention to

the subject, an improved breed may be obtained, they propose a gold medal for the best essay, founded in experience, on the breeding, feeding and management of cattle, for the purpose of rendering them most profitable for the dairy and for beef; and most docile and useful for the draught;—and, for the next best, a silver medal. To be produced by the first of January, 1787. N. B. Among other things, the essay should notice the different breeds of cattle, and their comparative qualities.

15. It is a generally received opinion, that horses in a team travel much faster than oxen. Yet some European writers on husbandry mention many instances in which it appeared, not only that oxen would plough as much ground as an equal number of horses; but travel also as fast with a loaded carriage; particularly when, instead of yokes and bows, they were geared in horse-harness, with such variations as were necessary to adapt it to their different shape. To ascertain the powers of oxen in these particulars, and the expense of maintaining them, the Society deem matters of very great moment; and are therefore induced to offer a gold medal for the best set of experiments undertaken with that view;—and, for the next best, a silver medal. In relating these experiments, it will be proper to describe the age and size of the oxen, their plight, the kinds and quantities of their food, the time, manner and expense of shoeing them; in travelling, the kinds of carriages used, and weights of their loads, the seasons of the year, and the length and quality of the roads; and in plowing, the size and fashion of the plough, the quality of the soil, the depth of the furrows, and the quantities plowed; and, in every operation, the time expended, and number and sort of hands employed in performing it; with any other circumstances which may more fully elucidate the subject. These experiments will enable the essayist to determine what will be the best form and construction of yokes and bows, and what of ox-harness, to enable oxen, with the best carriage of their bodies and heads, the most ease, and quickest step, to draw the heaviest loads; a description of each of which sorts of gears, explained on mechanical principles, must be subjoined to the accounts of experiments. To be produced by the first day of January, 1787.

16. For the best method, within the power of common farmers, of recovering old *gullied* fields to a hearty state, and such uniformity or evenness of surface as will again render them fit for tillage; or, when the gullies are so deep and numerous as to render such recovery impracticable, for the best method of improving them, by planting trees, or otherwise, so as to yield the improver a reasonable profit for his expenses therein; founded in experience,—a gold medal;—and, for the next best, a silver medal. To be produced by the first of January, 1790.

17. For the greatest quantity, not less than 500 lbs., of cheese, made on one farm, in any of these States, equal in dryness, richness and flavour to the Cheshire cheese usually imported from England, and which shall be produced to the Society by the first of January, 1788,—a gold medal;—and for the next greatest quantity, not less than 250 lbs., of like quality, a silver medal. Besides which, the Society engage to pay for the cheese, so produced, at the rate of ten per cent. more than the then current wholesale price, at Philadelphia, of Cheshire cheese of the same quality.

Agreed to purchase, for the use of the Society, Lord Kaim's book on Husbandry, entitled The Gentleman Farmer—and Anderson's Essays.

The following gentlemen were nominated for honorary members,

viz: Wm. Fitzhugh, Esq., of Chatham, Virginia; Robert Beverly, Esq., Blandfield, Va.; Mr. Charles Willing, Chester county, Penna.

And for members—Mr. John Field, Benjamin Wynkoop, and Dr. Thomas Ruston.

City of Philadelphia,

Carpenters' Hall, March 7, 1786.

Present: Mr. Powell (Pres.), Hill, Hodgdon, Vaughan, G. Clymer, Logan, Hiltzheimer, Pleasants, Stoneburner, W. W. Smith, Horton, Dr. Jackson, Pickering; and Mr. Curwen, an honorary member.

Received and read a letter of the 16th of February last, from J. B. Bordley, Esq., accompanied with plans and a description of his *Cluster Drill*, for sowing wheat in clusters, or clumps. And the same was referred to a committee, to report thereon at the next meeting. The committee are Mr. Hiltzheimer, Mr. Hodgdon, and Mr. Pickering.

Received and read a letter of the 4th inst., from Col. George Morgan to Mr. Vaughan, suggesting the expediency of establishing fairs for cattle. The same was referred to a committee, consisting of Mr. Curwen, Mr. Hill, Mr. G. Clymer, and Col. George Morgan.

Mr. Powell, Mr. Vaughan and Mr. Clymer are appointed a committee to examine the laws of Pennsylvania respecting the roads, and report their opinion of the best mode of providing for their effectual and permanent repair.

Mr. Bernard Dougherty, proposed Jan. 10th, for an honorary member,—Count Castiglioni, John Cosens Ogden, James Vaux, Col. Francis Nichols, and Samuel Potts, proposed the 7th of February, and Wm. Fitzhugh, Esq., Robert Beverly, Esq., and Mr. Charles Willing, proposed at the adjournment of the stated meeting, on Feb. 14th, for honorary members; and John Donaldson, Gen. Muhlenburgh, Duncan Ingraham, jr , and Hugh Hodge, proposed Feb. 7th; and John Field, Benjamin Wynkoop, and Dr. Thomas Ruston, proposed Feb. 14th, for members—were all severally balloted for and elected at this meeting.

Honorary members proposed—Henry Dorsey Gough, Esq., of Maryland; William Pine, of Burlington county, N. Jersey; James Wilkinson, Esq., John Coburn, Esq., of Kentucky.

Member proposed—John Holker, Esq.

City of Philadelphia,

Carpenters' Hall, April 4, 1786.

Present: Mr. Powell (Pres.), Vaughan, Dr. Logan, Col. Melcher, Mr. Lardner, Hiltzheimer, Hodgdon, Pickering.

The proceedings of the last meeting were read; and the gentlemen then proposed for members and honorary members were duly elected.

Read a letter of the 10th ult., from Col. George Morgan, describing his method of managing bees and taking their honey, without destroying them. This method appearing to the Society to be easily practicable, and very eligible, ordered that the same be published in the newspapers.

The committee to whom was referred Mr. Bordley's letter of the 16th of February last, with plans and descriptions of his *cluster drill*, report—

That they have considered the same, and think the machine is very ingeniously contrived to answer its design. That if the result of Mr. Bordley's experiments in sowing wheat, in the manner effected with this drill, last fall, shows the same to be a useful improvement, it will then be proper to get a model of it made, and to recommend it to the public. In the mean time, that the receipt of the communication be acknowledged.

Read a letter from Baron Burgsdorf, dated Tiegel, near Berlin, 10th Jan. 1785, addressed to the American Philosophical Society, and with their consent, introduced by Mr. Vaughan, into this Society of Agriculture. It is the Baron's wish that other naturalists would co-operate with him, and on the plan he has proposed, in observing the order of vegetation in *trees*, particularly *forest trees*, and their various relations; and publish their observations; from a comparison of all which, important general conclusions may be drawn.

Members proposed—Miers Fisher, Esq., Samuel Howell, jr., Col. Joseph Ellis, of Glocester, New Jersey; David Hayfield Conningham and Alexander Nesbitt.

Honorary members proposed—Dr. John Coates, Eastern Shore of Maryland; Wm. Finley, Esq., of Westmoreland county.

City of Philadelphia,

Carpenters' Hall, May 2, 1786.

Present: Mr. Powell (Pres.), Vaughan, G. Clymer, Kuhn, Milligan, Hodgdon, Pickering, Hiltzheimer.

Received and read the propositions of *A Member*, relative to the repairing the roads in Pennsylvania; and the same was referred to Mr. Powell, Clymer, and Pickering, to revise and publish.

The gentlemen proposed at the last meeting for members and honorary members, were balloted for and duly elected.

Received and read a letter, dated Jan. 14, 1786, from Mr. Bordley, recommending the erecting of County Malt-houses, to facilitate the introduction of beer generally into the country, as a substitute for rum and other spirituous liquors; and the same is ordered to be published.

Mr. Powell, Mr. Clymer, Mr. Pickering, and Mr. Milligan are appointed a committee to revise and publish Col. George Morgan's Essay on the Barn Yard system.

Received and read a paper of Mr. Bordley's, containing estimates of the comparative expenses and profits of fattening hogs with maize and potatoes.

Members nominated.—Mr. Samuel Vaughan, jr., Mr. Wm. Fisher.

City of Philadelphia,

Carpenters' Hall, June 6, 1786.

Present: Mr. Powell (Pres.), Vaughan, Logan, Pleasant, Stoneburner, Pickering.

The proceedings of the last meeting were read, and the persons then proposed for members were balloted for and duly elected.

Mr. Vaughan presented a paper containing hints on the utility of forming hedge fences.

City of Philadelphia,

Carpenters' Hall, July 4, 1786.

Present: Mr. Powell (Pres.), Vaughan, Sellers, Horton, Pickering.

A paper written on the culture of potatoes, by Joseph Greenleaf, Esq., of Boston, signed Agricola, and forwarded to the Secretary by the Rev. Mr. Clarke, was read; and being approved by the Society, they directed the material parts thereof to be selected and published.

Joseph Greenleaf, Esq., above named, was proposed for an honorary member.

City of Philadelphia,

Carpenters' Hall, August 1, 1786.

Present: Mr. Powell (Pres.), Vaughan, Hodgdon, Horton, Pickering.

Joseph Greenleaf, Esq., proposed at the last meeting for an honorary member, was balloted for and duly elected.

Col. Francis Johnston was proposed for a member, and the Rev. Andrew Hunter, of New Jersey, for an honorary member.

City of Philadelphia,

Carpenters' Hall, Sept. 5, 1786.

Present: Mr. Powell (Pres.), Dr. Smith, Mr. Hodgdon, Hiltzheimer, Sellers.

A paper, accompanied with a plan and estimate of the expense for building a bridge across the Schuylkill, at the Middle Ferry, was presented, and read by the President. And, on motion, the following persons were appointed a committee to examine the same, and consider of the propriety of applying to the General Assembly, with a digested plan for carrying the same into execution; viz. Mr. Powell, Clymer, Sellers and Pickering.

Col. Francis Johnston, proposed at the last meeting for a member, and the Rev. Andrew Hunter, of New Jersey, for an honorary member, were balloted for and duly elected.

A letter from Mr. Bordley, and one inclosed to him, from Mr. Singleton, were read; exhibiting their experiments in sowing wheat in clusters. Referred to the Committee on the Bridge, to examine and digest for publication.

A letter from Metcalf Bowler, Esq., of Providence, Rhode Island, inclosing his Pamphlet on Agriculture, was read. Referred to the President to acknowledge the receipt thereof, and thank him for the communication.

Another letter, dated July 31st, from the Rev. Samuel Dean, of Falmouth, Casco Bay, was read. It covered two heads of six rowed barley, selected from a few found among his barley, and sent to the Society to be propagated. Referred to the Secretary, to acknowledge the receipt thereof, and return the thanks of the Society for the communication.

Members proposed—Dr. George Glentworth, Dr. Benjamin Say, Mr. Josiah Willard Gibbs, Dr. John Foulke.

City of Philadelphia,

Carpenters' Hall, October 3, 1786.

Present: Mr. Powell (Pres.), Vaughan, Hodge, Smith, Horton, Hodgdon, Jno. Sellers, Pickering, Jonathan Williams, jr., an honorary member.

Read a letter from Oliver Walcott, Esq., dated the 9th ult., informing of the establishment, in Connecticut, of a Society for Promoting of Arts, Manufactures and Agriculture; and requesting a correspondence.

The gentlemen proposed for members, at the last meeting, were balloted for and duly elected.

Read two letters, one dated Oct, 1, 1785, and the other Sept. 3, 1786, and signed a Jersey Husbandman; showing the advantages of sowing seeds with a drill.

Mr. Wm. Miller and Mr. Richard Lake were proposed for members, and Nathaniel Gardner, Esq., of Suffolk county, Long Island, for an honorary member of the Society.

City of Philadelphia,

Carpenters' Hall, November 7, 1786.

Present: Mr. Powell (Pres.), Vaughan, Wm. Fisler, Mr. Hiltzheimer, Horton, Lardner, Garrigues, Twells, Sellers, Francis, Clarkson, Hodgdon, Pickering, L. Morris, jr., Dr. Smith, Glentworth, Say, Mr. R. Morris, John Penn; Richard Penn, Esq., Thornhill, Esq., Members of the British Parliament, spectators.

Mr. Powell proposed Mr. Wm. Hamilton for a member, and Richard Penn and Edward Thornhill, Esqs., of the Kingdom of Great Britain, for honorary members.

The report of the committee relative to the bridge proposed by Mr. Sellers to be built over the river Schuylkill, at the Middle Ferry (or extremity of High street), was read. After considering the same, together with the plan, model, and estimate of the proposed bridge, the Society agreed in the expediency and practicability of building such a bridge; and that the most eligible mode of raising an adequate fund for the purpose, would be by subscription; the subscribers to be incorporated, and authorized to take a certain toll, sufficient, in a reasonable time, to compensate them for the sums they shall advance. And the same committee were desired to apply to the General Assembly, praying a committee might be appointed to consider of the plan, model and

estimate of the proposed bridge, and, if approved, they were further desired to pray for an act of incorporation of the persons who shall become subscribers to the undertaking.

Mr. Vaughan moved, that the meetings of the Society be held on the Tuesday next preceding every full moon, instead of the first Tuesday of every month. The motion was seconded; but the monthly meeting on Tuesday evening being fixed by a law of the Society, which cannot be altered till the next annual meeting in January, the question was not put.

A drilling machine, sent from England by Charles Vancouver, Esq., and exhibited to the Society by Mr. Mordecai Lewis, for their purchase, if approved, was carefully viewed; and, it appearing to the Society that it could not be used to advantage in this country, it was agreed not to purchase it.

An impression of the die for the Society's medal, cut by Mr. Reynolds, was produced; and, it appearing to be very imperfectly executed, it was agreed to reject it.

Agreed, that the same committee who engaged Mr. Reynolds to cut the die, be authorized to get a new die cut, as speedily as possible.

A letter of the 31st ult., from Jonathan Williams, jr., (an honorary member), was read. It inclosed a plan and description of a grainery, and was accompanied by a model formed agreeably to that plan. Whereupon it was—

Ordered that the thanks of the Society be given to Mr. Williams for the ingenious plan and model of a grainery by him presented to the Society.

The committee on Mr. Sellers's plan of a bridge, to be erected across the Schuylkill, at the end of High street, in pursuance of the Society's order of the 7th of November, have agreed on the following Memorial, to be presented to the General Assembly, to be signed by the President, who is Chairman of the Committee.

To the Honourable the Representatives of the Freemen of the Commonwealth of Pennsylvania in General Assembly met:

The Memorial of the Society for Promoting Agriculture, established at Philadelphia, respectfully showeth—

That a model for a Permanent Bridge, to be erected across the River Schuylkill, at the western extremity of High street, together with an estimate of the expense necessary to complete the same, has been lain before the Society. That the plan of the said Bridge appears altogether practicable, and the expense attending the erection of it within the abilities of the State, without becoming burdensome to the same.

The Society forbear to intrude upon the time of the Honourable House, by any observations upon the conveniency and utility of such Bridge to the public in general, as they think both these are apparent

The respectful request of the Society is, that the Honourable House would be pleased to appoint a Committee to view the model and consider the estimate; and if the erection of such a Bridge shall appear to be practicable and expedient, that such a Charter of Incorporation may be granted to those persons who may be willing to become subscribers to the undertaking, as to the Honourable House may appear most likely to facilitate the same.

Signed by order of the Society.

S. POWELL, *President.*

Philadelphia, Nov. 8, 1786.

CITY OF PHILADELPHIA,

Carpenters' Hall, December 4, 1786.

Present: Mr. Powell (President), Vaughan, G. Clymer, D. Clymer, Sellers, Francis, Logan, Hodgdon, Pickering.

Read two packets from Mr. J. B. Bordley—one exhibiting the manner of *treading out wheat* with horses, with several plans of the *treading floors;*—the other, a number of experiments on *sowing wheat,* and inclosing two letters from Mr. Embleton, of Maryland, giving an account of the *extraordinary produce of wheat* on some of his lands, and the advantage of *lessening* the stocks of horned cattle, in order to make *larger* quantities of manure than are commonly produced.

Proposed for members—Joseph Ogden, Benjamin Brannan, Charles Vaughan.

Honorary members.—Rev. Leonard Meale, of Port-Tobacco, Maryland; Mr. Wm. Embleton, of Howell's Point, Maryland; Mr. Temple Franklin, Gerardus Wynekoop, Samuel Evans, Hugh Brackenridge and Samuel Wheeler, Esquires, and Mr. Gilpin.

On motion, agreed that the moneys of this Society be lodged in the National Bank, and drawn out, for the use of the Society, by the orders of the President, pursuant to the directions of the Society and of the Committee of Accounts.

The persons proposed at the last meeting for a member and honorary members, were balloted for and duly elected.

CITY OF PHILADELPHIA,

Carpenters' Hall, January 2, 1787.

Present: Mr. Powell (Pres.), Col. Miles, Mr. Stoneburner, Hiltzheimer, Sellers, Horton, J. Donaldson, S. Garrigues, Dr. Ruston, Mr.

Wm. Fisher, Vaughan, S. Vaughan, jr., Hodgdon, Miller, Lake, Hare, Twells, Luke Morris, G. Clymer, Dr. Wm. W. Smith, Mr. Pickering.

Honorary members.—Jonathan Williams, jr., Thomas Paine, Esq., Count Castiglioni.

The Society proceeded to the choice of their officers for the ensuing year; and, on examining the tickets, it appeared that the following persons were unanimously elected, viz.

Mr. Powell, President; Mr. Bordley, Vice President; Mr. Francis, Treasurer; Mr. Pickering, Secretary.

Members proposed.—(By Mr. Powell), Wm. Bingham, Esq. (By Mr. Powell), Arthur Donaldson. (By Mr. Sellers), John Haworth. (By S. Garrigues), Thomas Ryerson.

Honorary member.—(By Mr. Vaughan), Mr. Le Coteux, lately of Rouen, in France, now of Pennsylvania.

Motion by Mr. Wm. Fisher, seconded by Mr. Vaughan, that the monthly meetings of the Society be on the Tuesday nearest to the full moon; on which, the question being put, it passed in the negative.

Motion by Mr. Lake, seconded by Mr. Hare, that the 2d law of the Society be amended, by striking out the words "Rural affairs," and inserting in their stead, "to such other matters as may be intimately connected therewith;" on which, the question being put, it passed in the negative.

The persons proposed at the last meeting, for members and honorary members, were balloted for and duly elected.

The following persons were chosen, by written ballots, a Committee of Correspondence and Accounts, viz.

Mr. Powell, G. Clymer, Francis, Hare, Pickering.

City of Philadelphia,

Carpenters' Hall, February 5, 1787.

Present: Mr. Powell (Pres.), Miles, G. Morgan, Hiltzheimer, Clarkson, Ruston, Lake, Garrigues, Miller, Hodgdon, Hare, Twells, Francis, Brackenridge, Horton, Wm. Fisher, Vaughan, Clymer, Sellers, Logan, Haworth.

A letter from Henry Wyncoop, Esq., dated the 22d Jan. last, was read, offering to the consideration of the Society, a method of gathering and preserving Indian corn—and of providing green fodder for ewes in the spring.

Mr. Clarkson presented a machine, as an appendage to a common plough, for sowing in drills.

Voted, that a similar machine be provided for the Society; and Mr. Clarkson is desired to get it executed.

The gentlemen proposed at the last meeting, for members and honorary members, were balloted for and duly elected.

The following persons were proposed for honorary members, viz:

Alpheus Moore, Esq., of Keen, County of Cheshire, New Hampshire; Lewis Richard Morris, of Springfield, County of Windsor, Vermont; Jeremiah Van Renselaer, of Albany; Samuel Maclay, Col. Henry Fry, on the Mohawk river.

Honorary members proposed.—James Tilton, William Killing, Eleazer M'Coombs, James Sykes, James Ballach, Vincent Lookerman, of Dover, Delaware State; Wm. Winder, Eastern Shore, Maryland.

For a member.—Mr. Joseph Harrison.

City of Philadelphia,

Carpenters' Hall, March 6, 1787.

Present: Mr. Powell (Pres.), Vaughan, Horton, Sellers, Samuel Vaughan, jr., Wm. Fisher, Clarkson, R. Willing, Miles, Charles Vaughan, Miller, Hare, Edwards, Twells, Jonathan Williams, jr., Logan, George Fox, Hodgdon.

Mr. Clarkson delivered to the Society a drill, to be annexed to a common plough—which was made by Mr. Edward Duffield, and presented to the Society for their acceptance. The Society desired Mr. Clarkson to return to Mr. Duffield the thanks of the Society for the present.

The gentlemen proposed at the last meeting for honorary members and members, were balloted for and duly elected.

Proposed for honorary members.—Noah Webster, jr, Esq., by Mr. Hodgdon; Richard Stockton, Esq., of Princeton, by Mr. Horton.

City of Philadelphia,

Carpenters' Hall, April 3, 1787.

Present: Mr. Powell (Pres.), Vaughan, Paine, T. Franklin, Doctor Logan, Mr. Chas. Vaughan, Haworth, Hodgdon, Wm. Fisher, Pickering.

Read a letter, dated March 19, 1787, from Mr. Bordley, in which he recommends the erecting of county malt houses, to supply malt to each private family, that they may brew their own beer.

N. B. This letter is substantially the same with a former of Mr. Bordley's, which was published in Hall's & Sellers' newspaper of June 7, 1786.

Read a letter of March 1, 1787, from Col. George Morgan, proposing some questions relative to the culture of flax, and recommending the making experiments to ascertain the quantity of seed most proper to be sown.

The two gentlemen nominated at the last meeting, for honorary members, were balloted for and duly elected.

The Secretary informed the Society that he expected shortly to move from this city, which would put it out of his power any longer to serve the Society as their Secretary; and desired them to think of a person to be elected at the next meeting, in his stead.

City of Philadelphia,

Carpenters' Hall, May 1, 1787.

Present: Mr. Powell (Pres.), Clarkson, Sellers, Hodgdon, Haworth, Horton.

A letter, signed *O*, addressed to the Society, on the necessity of attending immediately to raising timber for the purposes of farming: also, pointing to the best method of raising thorns, for making hedge fences, where timber is already exhausted, was read and referred to the Committee of Correspondence to examine, digest and report.

Mr. Powell nominated Col. Joseph Kirkbride, of Bordentown, for an honorary member.

City of Philadelphia,

Carpenters' Hall, June 5, 1787.

Present: Mr. Powell (Pres.), George Clymer, Vaughan, Sellers, Horton, Dr. Wm. W. Smith, Mr. Meredith, Millegan, Mifflin, Ross.

A letter from George Morgan, Esq., a member of this Society, on the subject of the Hessian fly, was presented by the President, and read.

Resolved, That the President be requested to write to the President of the Agricultural Society of New York, on the subject of the present letter, desiring him to communicate the result of their inquiries, and the most probable means of destroying this most pernicious insect.

City of Philadelphia,

Carpenters' Hall, July 3, 1787.

Present: Mr. Powell (Pres.), General Washington, Mr. Meredith, Governeur Morris, G. Clymer, Sellers, Dr. Jones, Mr. T. Francis, S. Hodgdon.

The minutes of the last meeting were read.

The President presented to the Society a letter from General Washington, of the 30th ult., which was read. It was accompanied with 6 volumes of the Annals of Agriculture, by Arthur Young, Esq., who desired the General to present the same to the Society, to whom Mr. Young tenders his service.

Mr. Powell proposed Mr. David Evans, of Philadelphia, for a member.

Mr. Sellers presented to the Society a plan of a bridge, consisting of two arches, to be built on the River Schuylkill.

Mr. Hodgdon nominates John Nicholson, Esq., for a member.

City of Philadelphia,

Carpenters' Hall, August 7, 1787.

Present: Mr. Powell (Pres.), Mr. G. Clymer, Dr. Logan, Mr. Pleasants, Gilpin, Haworth, Hodgdon, Horton, Okely.

A letter from Dr. Logan, addressed to the Society, reprobating the use of spirituous liquors amongst farmers, and recommending malt liquors as a substitute, was read.

On motion, the Dr. was requested to take back his communication, and accurately ascertain the cost of a barrel of malt beer, that, with proper observations thereon, his letter may be published.

A paper, containing directions for sowing wheat, on a clover lay, was presented by Mr. Pleasants, read, and referred to the Committee of Correspondence.

Mr. Pleasants nominated Mr. Richard Wall, of Burlington county, New Jersey, for an honorary member.

Mr. Hodgdon nominated Thomas Canidine, of Queen Ann's county, Maryland, for an honorary member.

The President mentioned to the Society the necessity of thinking of some suitable person to fill the office of Secretary in the room of Col. Pickering, who has removed from the city, and whose long and acceptable services merit the best thanks of the Society.

Mr. Clymer nominated Mr. Wm. Temple Franklin, and he is accordingly in nomination, agreeably to the laws of the Society, previous to his election at the next meeting.

On motion, agreed and ordered, that Mr. Jacob Harvey be employed to collect the annual subscriptions of the resident members, and that he immediately wait on the Treasurer of the Society for the requisite papers and directions to commence the business.

City of Philadelphia,

Carpenters' Hall, September 4, 1787.

Present: Mr. Powell (Pres.), Dr. Logan, Dr. Ruston, Mr. Hare, Sellers, G. Clymer, C. Vaughan, Hiltzheimer, Stoneburner, Horton.

A letter from Elias Boudinot, Esq. (an honorary member of this Society), on the subject of the Hessian fly, was presented and read.

A letter from George Morgan, Esq., dated July 25, 1787, on the same subject, was presented and read.

The President informed the Society, that, agreeably to a resolve of the Society of the fifth of June, he had written to the President of the Agricultural Society of New York on the subject of the Hessian fly.

The President likewise informed the Society, that, agreeably to their order, entered into at the last meeting, Mr. Jacob Harvey was employed in collecting the annual contributions of the Society, and that he had made some progress in that service.

The two persons proposed as honorary members at the last meeting of the Society, were unanimously elected.

The person nominated at the last meeting, as Secretary to the Society, not being in the city, the election was postponed.

Dr. Ruston nominated Daniel Vardon, of White Hill, New Jersey, as an honorary member.

Mr. Stoneburner nominated Mr. Wm. Rush, of this city, as a member.

A letter from Henry Wynkoop, Esq., dated August 13, 1787, on the subject of Plaster of Paris, as a *grass manure*, was presented and read.

A letter from A. B. (presented by Dr. Logan), on the necessity of binding children to learn the *art* and *mystery* of *farming*, was read.

CITY OF PHILADELPHIA,

Carpenters' Hall, October 3, 1787.

Present: Mr. Vaughan, Dr. Ruston, Dr. Logan, Mr. John Vaughan, Horton, Hodgdon.

The President being absent, and not a quorum of members present, no business was entered on at this meeting.

CITY OF PHILADELPHIA,

Carpenters' Hall, November 6, 1787.

Present: Dr. Ruston, Cols. Pickering, Miles, Mr. Clarkson, Hiltzheimer, Hodgdon, Samuel Vaughan, John Vaughan, Hare.

Mr. Samuel Vaughan nominated the following gentlemen as honorary members, viz.

Dr. Wm. Pasture, Warner Lewis, Esq., of Williamsburgh; Philip Table, Esq., of Gloucester; Mann Page, Esq., Rev. John Bracken, Wm. Griffin, Esq., of Virginia.

No further business transacted at this meeting.

CITY OF PHILADELPHIA,

Carpenters' Hall, December 4, 1787.

Present: Mr. Powell (Pres.), G. Clymer, Pickering, Hodgdon.

No business done at this meeting.

CITY OF PHILADELPHIA,

Carpenters' Hall, January 1, 1787.

Present: Mr. Powell (Pres.), Mr. Hiltzheimer, Melcher, Horton, G. Clymer, Ross, Hodgdon, Gilpin, Hare, John Mifflin.

A letter from Elias Boudinot, Esq., was presented to the Society and read. A number of ears of Indian corn accompanied it. The purport of the letter was to relate the effects of several experiments made by cutting Indian corn at different periods, before it was fully ripe, and tending to show that it may be preserved as well, when cut thus early, as when suffered to remain the usual time in the field. The letter, with the corn, was referred to the Committee of Correspondence, to report the use that shall be made of the communication.

The Society proceeded to elect their officers for the ensuing year; and, on examining the ballots, it appeared that the following gentlemen were unanimously elected, viz.

Samuel Powell, Esq., President; John B. Bordley, Esq., Vice Predent; Tench Francis, Esq., Treasurer; Samuel P. Griffitts, Secretary.

The Society proceeded (agreeably to the seventh article in their laws), to the choice of five persons, to serve the ensuing year, as a Committee of Correspondence; when, on examining the ballots, it appeared that the following gentlemen were duly elected, viz.

Samuel Powell, George Clymer, Tench Francis, Robert Hare, John Mifflin.

The above named committee, with Gen. Muhlenberg, are appointed to revise the list of premiums already offered, and add such others thereto as they may judge meet, and the Society on report may approve; to report at the next meeting.

Mr. Powell nominated Bushrod Washington, Esq., of Westmoreland county, Virginia, as an honorary member.

Mr. Hiltzheimer nominated the Rev. Joseph Pilmore, of Philadelphia, as a member.

Daniel Vardon, of White Hill, New Jersey, nominated by Dr. Ruston, at a former meeting, was balloted for, and unanimously elected an honorary member: and—

Wm. Rush, nominated at the same time, by Mr. Stoneburner, was also balloted for, and unanimously elected a member.

City of Philadelphia,

Carpenters' Hall, February 5, 1788.

Present: Mr. Powell (Pres.), Vaughan, G. Clymer, Temple Franklin, Dr. Ruston, Griffitts.

The Secretary is desired to procure a book, and employ a proper person to copy into it, all the communications which have been made to the Society.

Mr. Powell reported, on behalf of the committee appointed at last meeting, to revise the Premiums already offered, and add such others as they judge proper, that they had revised them, and propose that the same list of Premiums be continued (omitting the seventh and twelfth), no claimants having appeared.

Resolved, That the Premiums numbered 16 and 17 be added to the list for the present year, which the Secretary is desired to publish, in the following order; in Hall & Sellers', and Humphreys' newspapers; and in the Museum and Columbian Magazine.

PREMIUMS

Proposed by the Philadelphia Society for Promoting Agriculture, February 5, 1788.

1. For the best experiment made of a course of crops, either large or small, on not less than four acres, agreeably to the principles of the English mode of farming,—a piece of plate, of the value of two hundred dollars, inscribed with the name and the occasion: and for the experiment made of a course of crops next in merit,—a piece of plate, likewise inscribed, of the value of one hundred dollars. Certificates to be produced by the 20th of December, 1790.

2. The importance of complete farm or fold yards, for sheltering and folding cattle, and of a preferable method of conducting the same, for procuring great quantities of compost, or mixed dung and manure, within the husbandman's own farm, induces the Society to give, for the best design of such a yard, and method of conducting it, suitable to this climate, and circumstances of common farmers,—a gold medal:—and, for the second best, a silver medal. The design to be presented to the Society by the 20th of December next.

3. For the best method of counteracting the injurious effects of frost, in heaving or spewing up ground, and exposing roots of wheat to the drying winds of the spring,—founded in experience, a gold medal:—and, for the second best, a silver medal. The account to be presented to the Society by the 20th of December next.

4. For the best method of raising hogs, from the pig, in pens, or styes, from experience, their sometimes running in a lot or field not totally excluded, if preferred,—a gold medal:—and, for the second best, a silver medal. To be produced by the 20th of December next.

5. For the best method of recovering worn-out fields to a more hearty state, within the power of common farmers, without dear or far-fetched manures; but by judicious culture, and the application of materials common to the generality of farmers, founded in experience,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1788.

6. For the best experiment, soil and other circumstances considered, in trench-plowing, not less than ten inches deep,—and account of the effects thereof, already made or to be made, on not less than one acre,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1789.

7. For the greatest quantity and variety of good manure collected in one year, and best managed, from materials common to most farms; regard to be had to the proportion and goodness of such manure, and the quantity and goodness of the arable and grass-lands of the whole farm on which it is obtained,—a gold

medal;—and, for the second best, a silver medal. To be claimed by the 20th of December, 1789.

8. For the best information, the result of actual experience, for preventing damage to crops by insects; especially the Hessian-fly, the wheat-fly, or fly weewil, the pea-bug and the corn chinch-bug or fly,—a gold medal;—a silver medal for the second best. To be produced by the 20th of December, 1788.

9. For the best comparative experiments on the culture of wheat, by sowing it in the common broad-cast way, by drilling it, and by setting the grain, with a machine, equidistant; the quantities of seed and produce, proportioned to the ground, being noticed,—a gold medal;—for the second best, a silver medal. The account to be produced by the 10th of January, 1789.

10. For an account of a vegetable food that may be easily procured and preserved, and that best increases milk in cows and ewes, in March and April, founded on experiment,—a gold medal;—for the second best, a silver medal. To be produced by the 10th of January, 1789.

11. For the greatest quantity of ground, well fenced, in locust trees or poles, of the sort used for posts and trunnels, growing in 1789, from seed sown after this time, not less than one acre, nor fewer than 1500 per acre,—a gold medal;—for the second, a silver medal. To be claimed in December, 1789.

12. The Society, believing that very important advantages would be derived from the general use of oxen, instead of horses, in husbandry and other services; and being desirous of facilitating their introduction into all these States; persuaded, also, that the comparative value of oxen and cows must very much depend on the qualities of their sires and dams; and that, by a careful attention to the subject, an improved breed may be obtained, they propose a gold medal for the best essay, the result of experience, on the breeding, feeding and management of cattle, for the purpose of rendering them most profitable for the dairy and for beef; and most docile and useful for the draught;—and, for the next best, a silver medal. To be produced by the first of January, 1789. N. B. Among other things, the essay should notice the different breeds of cattle, and their comparative qualities; as their sizes, strength, facility in fattening, quantity of milk, &c.

13. It is a generally received opinion, that horses in a team travel much faster than oxen. Yet some European writers on husbandry mention many instances in which it appeared, not only that oxen would plough as much ground as an equal number of horses; but also travel as fast with a loaded carriage; particularly when, instead of yokes and bows, they were geared in horse-harness, with such variations as were necessary to adapt it to their different shape. To ascertain the powers of oxen in these particulars, and the expense of maintaining them, the Society deem matters of very great moment; and are therefore induced to offer a gold medal for the best set of experiments undertaken with that view;—and, for the next best, a silver medal. In relating these experiments, it will be proper to describe the age and size of the oxen, their plight, the kinds and quantities of their food, the occasions, manner and expense of shoeing them; in travelling, the kinds of carriages used, and weights of their loads, the seasons of the year, and the length and quality of the roads; and in plowing, the size and fashion of the plough, the quality of the soil, the depth of the furrows, and the quantities plowed; and, in every operation, the time expended, and number and sort of hands employed in performing it; with any other circumstances which may more fully elucidate the subject. These experiments will enable the essayist to determine what will be the best form and construction of yokes and bows, and what of ox-harness, to enable oxen, with the best carriage of their bodies

and heads, the most ease, and quickest step, to draw the heaviest loads; a description of each of which sorts of gears, explained on mechanical principles, must be subjoined to the account of experiments. To be produced by the first day of January, 1789.

14. For the best method, within the power of common farmers, of recovering old *gullied* fields to an hearty state, and such uniformity or evenness of surface as will again render them fit for tillage; or, where the gullies are so deep and numerous as to render such recovery impracticable, for the best method of improving them, by planting trees, or otherwise, so as to yield the improver a reasonable profit for his expenses therein; founded on experiment,—a gold medal;—and, for the next best, a silver medal. To be produced by the first of January, 1790.

15. For the greatest quantity, not less than 500 lbs., of cheese, made on one farm, in any of these States, equal in dryness, richness and flavour to the Cheshire cheese usually imported from England, and which shall be produced to the Society by the first of January, 1789,—a gold medal;—and for the next greatest quantity, not less than 250 lbs., of like quality, a silver medal. Besides which, the Society engage to pay for the cheese, so produced, at the rate of ten per cent. more than the then current wholesale price, at Philadelphia, of Cheshire cheese of the same quality.

16. For the best method, deduced from experience, of raising the American white thorn from the seed, for hedges, and the greatest number of plants raised in a space not less than half an acre,—a gold medal;—for the second best, a silver medal. To be produced by the first of December, 1790.

17. The Society, believing that the culture of hemp on some of the low, rich lands, in the neighbourhood of the city, may be attempted with advantage, do hereby offer a gold medal for the greatest quantity of hemp raised within ten miles of the City of Philadelphia; the quantity not to be less than four acres;—for the second greatest quantity, a silver medal. The claim to be made by the first of December, 1788.

The claim of every candidate for a premium is to be accompanied with, and supported by, certificates of respectable persons, of competent knowledge of the subject. And it is required that the matters, for which Premiums are offered, be delivered in *without names*, or any intimation to whom they belong; that each particular thing be marked in what manner the claimant thinks fit; such claimant sending with it, a paper, sealed up, having on the *outside* a corresponding mark, and on the *inside*, the claimant's name and address.

Respecting experiments on the products of land, circumstances of the previous and subsequent state of the ground, particular culture given, general state of the weather, &c., will be proper to be on the account exhibited. Indeed, in all experiments and reports of *facts*, it will be well to particularize the *circumstances* attending them. It is recommended that *reasoning* be not mixed with the *facts:* after stating the latter, the former may be added, and will be acceptable.

Although the Society reserve to themselves the power of giving, in every case, either one or the other of the prizes (or premiums), as the performance shall be adjudged to deserve, or of withholding both, if

there be no merit; yet the candidate may be assured that the Society will always judge liberally of their several claims.

Bushrod Washington, Esq., nominated at the last meeting, as an honorary member; and the Rev. Joseph Pilmore, nominated at the same time, as a member, were both balloted for and duly elected.

Dr. Ruston nominated the Hon. John Blair, Esq., of Williamsburgh, as an honorary member.

City of Philadelphia,

Carpenters' Hall, March 4, 1788.

Present: Mr. Powell (Pres.), Horton, Hiltzheimer, Stoneburner, Twells, Hare, Rush, Dr. Ruston, Griffitts.

A letter from Arthur Young, Esq., dated Bradfield Hall, near Bury, Suffolk (Great Britain), Dec. 21, 1787, addressed to the President in answer to one of the 10th of September last, was presented and read. In this letter Mr. Young recommends attention to the course of crops, and requests information concerning the prices of different kinds of wool, corn, provisions and cattle. Referred to the Committee of Correspondence, to acknowledge the receipt of it, and to request a continuation of his correspondence.

Two letters from Mr. Bordley, dated December 24, 1787, were presented and read. The first, containing his own observations, and Mr. Singleton's experiments on sowing wheat on a clover lay. The second, containing an account of a small drill for sowing hemp, the invention of Mr. Singleton, accompanied with the drill.

Mr. Stoneburner communicated an account of the produce of his lands for the year 1787.

Mr. David Evans and John Nicholson, Esqs., both of Philadelphia, who were nominated for members, July 3, 1787, were now balloted for and duly elected.

The following gentlemen, nominated November 6, 1787, as honorary members, were balloted for and duly elected, viz:

Dr. Wm. Pasture, Warner Lewis, Esq., of Williamsburgh, Virginia; Philip Table, Esq., of Gloucester, Va.; Mann Page, Wm. Griffin, Esqs., Rev. John Bracken, of Va.

The Hon. John Blair, Esq., of Williamsburgh, Virginia, nominated at last meeting as an honorary member, by Dr. Ruston, was now also balloted for and duly elected.

Mr. Powell nominated Major David Ross, of Maryland, and Chas. Carter, Esq., of Virginia, as honorary members.

Mr. Hare nominated Mr. Woodford, of Feuquiere county, Virginia, as an honorary member.

City of Philadelphia,

Carpenters' Hall, April 1, 1788.

Present: Mr. Powell (Pres.), Clymer, Drs. Kuhn, Griffitts.

There not being a sufficient number of members met to constitute a quorum, no business was transacted.

City of Philadelphia,

Carpenters' Hall, May 6, 1788.

Mr. Powell (Pres.), Clymer, Hodgdon, Meredith, Hiltzheimer, Dr. Kuhn, Griffitts.

The Secretary is directed to get printed 1000 copies of the revised Laws of the Society, with the premiums for the present year, and names of the members.

A letter from Mr. Ghovaere, accompanied with a quantity of cool-sact or cool seed, recommending its culture, was presented and read.

Major David Ross, of Maryland, Charles Carter, Esq., and Mr. Woodford, of Virginia, nominated March 4, as honorary members, were now balloted for and duly elected.

A plan and description of a threshing machine, called a *Winlaw*, sent by Mr. Bordley, was presented—on which the President and Mr. Clymer were requested to inquire the price of constructing such a machine.

City of Philadelphia,

Carpenters' Hall, June 3, 1788.

Present: Mr. Powell (Pres.), Clymer, Obrien, Hill, Pleasants, Dr. Kuhn, Griffitts, Mr. Stanley, Hiltzheimer, Hodgdon, Twells, Temple Franklin, Meredith.

The committee appointed at the last meeting, to inquire the price of constructing a winlaw, informed the Society that they had called on the artist, from whom they expected to receive the necessary information,

but had not been able to find him at home. The same committee is requested to endeavour to get such a machine constructed at the expense of the Society.

The Secretary reported that he had got 920 copies of the Society's Laws, &c., printed, and produced some for the use of the members present. He is directed to have them distributed generally amongst the members.

An account from Mr. James Trenchard, amounting to £39 2*s.* 6*d.*, for sinking a pair of dies for the Society's medal, with expenses contingent thereon, was presented, and the President was empowered to draw on the Treasurer for payment of the same.

The Committee of Correspondence are directed to have the gold medal adjudged to Col. George Morgan, prepared and forwarded to him with all convenient dispatch. The following inscription to be engraven on the reverse thereof.

To George Morgan, for his Essay on a Farm Yard. Adjudged Feb. 7th, 1786.

And the President is empowered to draw on the Treasurer for the sum necessary for completing the same.

A letter, dated Dover, May 7, 1788, from Eleazer M'Coombs, Esq., an honorary member of the Society, accompanied with a model of a cart for spreading manure, the invention of Col. John Jones, of Sussex county, together with his own proposed method of cultivating his lands, were presented and read. As was, likewise, a letter from Dr. James Tilton, an honorary member, dated Dover, April 6, 1788, accompanied with a set of Answers to the Queries on the present State of Husbandry and Agriculture in the Delaware State.

The Committee of Correspondence are directed to acknowledge the receipt of the above communications.

Mr. Hodgdon nominated Major John Patton, of Dover, State of Delaware, as an honorary member.

CITY OF PHILADELPHIA,

Carpenters' Hall, July 1, 1788.

Present: Mr. Powell (Pres.), Hodgdon, Nixon, Aston, Miles, Jos. Mifflin, Lardner, Miller, G. Clymer, Griffitts, Milligan, Hiltzheimer, Stoneburner, Obrien, Wm. Rush.

Mr. Powell reported that the artist who was to have constructed the Winlaw has removed to Kentucky. He also reported that he had paid Mr. Trenchard's bill, and delivered the dies and gold for Col. Morgan's prize medal to Mr. Hodgdon.

Mr. Hodgdon informed the Society that an additional sum would be wanted to complete the medal; on which it was resolved, that he be desired to have it executed at the expense of the Society.

Major John Patton, of Dover, State of Delaware, proposed at last meeting, as an honorary member, was now balloted for and duly elected.

John Gill and Wm. Robinson, Esqs., were nominated by Mr. Powell, for members.

A Letter from John B. Bordley, Esq., giving an account of ——— economical method of reaping wheat, accompanied by a drawing, was presented and read; and referred to the Committee of Correspondence.

CITY OF PHILADELPHIA,

Carpenters' Hall, August 5, 1788.

Present: Mr. Powell (Pres.), Dr. Griffitts.

The members met not being a sufficient number to form a quorum, no business was done.

CITY OF PHILADELPHIA,

Carpenters' Hall, September 2, 1788.

Present: Mr. Powell (Pres.), Miles, Garrigues, G. Clymer, Horton, Temple Franklin, Gerardus Wynkoop, Vaux, Hiltzheimer, Dr. Jones, Griffitts.

A letter from the Supreme Executive Council of the State, requesting information concerning the Hessian fly, was read, and is as follows:

In Council—Philadelphia, September 1, 1788.

Sir,—A Proclamation was issued on the twenty-fifth of June last, by his Britanic Majesty, prohibiting the entry of wheat, the growth of any of the territories of the United States, into any of the ports of Great Britain; and as there is reason to believe that the said Proclamation has been occasioned by some misinformation respecting the insect called the Hessian fly—Council therefore request your useful Society to investigate and report to them, as soon as convenient, the nature of the Hessian fly; particularly as to the manner of its being propagated, and the effects of it on the crops of wheat; and to ascertain, with all possible precision, whether the loss of the crops is not occasioned by the destruction of the plant, and whether the small quantity of wheat produced from a field infected

with the fly, is good grain or otherwise: likewise, the most successful method that has hitherto been discovered for preventing the effects of this insect.

I am, Sir, with great respect,

Your obedient and very humble servant,

P. MUHLENBURG.

SAMUEL POWELL, *President of the Agricultural Society.*

And it being the unanimous opinion of the Society that the fly does not attack the grain of the wheat, but the plant only, it was referred to the Committee of Correspondence to send a proper answer to Council on this subject.

A letter from Henry Wynkoop, Esq., on the means of preventing the destructive effects of the Hessian fly, was read and referred to the Committee of Correspondence.

John Gill and Wm. Robinson, Esqs., nominated on the first day of July last, for members, were now balloted for and duly elected.

An account of the produce of several kinds of grain, planted September 18, 1787, by Jacob Hiltzheimer, Esq., was presented and read.

A letter from Mr. Richard Parker, of Lawfield, Virginia (communicated by Bushrod Washington, Esq.), on the culture of tobacco, was presented and read.

CITY OF PHILADELPHIA,

Carpenters' Hall, October 7, 1788.

Present: Mr. Powell (Pres.), Pickering, Hodgdon, Griffitts.

Mr. Powell nominated Dr. Caspar Wistar, of this city, for a member.

There not being a quorum for transacting business, nothing further was done.

CITY OF PHILADELPHIA,

Carpenters' Hall, November 4, 1788.

Present: Mr. Powell (Pres.), Coxe, Dr. Kuhn, Griffitts.

The following gentlemen were nominated, by Mr. Powell, for honorary members, viz:

Monsieur Rochefontaine, Aide Marechal General des Logis de l'Armée à Epernay en Champagne (France); James R. Reed, Esq., of Cumberland county.

The members met not being a sufficient number to constitute a quorum, no further business was done.

CITY OF PHILADELPHIA,

Carpenters' Hall, December 2, 1788.

Present: Mr. Powell (Pres.), G. Clymer, Meredith, Griffitts.

The members met not being a sufficient number to form a quorum, no business was transacted.

CITY OF PHILADELPHIA,

Carpenters' Hall, January 6, 1789.

Present: Mr. Powell (Pres.), Pleasants, Stoneburner, Wm. Rush, Hiltzheimer, Luke Morris, jr., Griffitts.

Agreeably to the 19th section of the Laws of the Society, a revision of the same took place, the further consideration of which, with the List of Premiums to be proposed for the present year, were referred to a committee, consisting of Messrs. Powell, Hare, and G. Clymer, who are to report what alterations may be necessary in the Laws and Premiums.

The Society then proceeded to the choice of officers for the present year; when the following persons were duly elected, viz.

Mr. Powell, President; Mr. Bordley, Vice President; Mr. Francis, Treasurer; Mr. Samuel Powel Griffitts, Secretary.

Committee of Correspondence.—Samuel Powell, George Clymer, Robert Hare, Tench Francis, John F. Mifflin, Esq.

Mr. Powell reported, on behalf of the Committee of Correspondence, that they had returned an answer to the letter from Council on the Hessian fly, mentioned in the Minutes of September 2, 1788 (this being the first meeting of the Society since that time, at which a quorum of members have attended). The committee's answer is as follows, viz:

Sir,—The Philadelphia Society for Promoting Agriculture, before whom I had the honour of laying the inquiries addressed to them by the Supreme Executive Council of the State of Pennsylvania, on the subject of the Hessian fly, have directed me to assure your Honourable Board, that, from every communication made to them on the subject, they are decidedly of opinion, that it is the plant of the

wheat alone that is injured by this destructive insect—that what grain happens to be produced from such plants is sound and good—and that the insect is not propagated by sowing wheat which grew on fields infected with it.

For the best information relative to the other inquiries, the Society beg leave to refer your Honourable Board to the Pennsylvania Mercury of June 8th, September 14th, 1787, and July 1st, 1778, and to the Pennsylvania Packet, of August 21, 1788.

I have the honour to subscribe myself, in the name of the Society,

Sir, your most obedient humble servant,

SAMUEL POWELL, *President.*

HON. PETER MUHLENBURG, Esq.,
Vice President of the State of Pennsylvania.

Philadelphia, Sept. 3, 1788.

Dr. Caspar Wistar, nominated Oct. 7, 1788, for a member, and Mons. de Rochefontaine and James R. Read, Esq., nominated Nov. 4, 1788, for honorary members, were now balloted for and duly elected.

An account of the culture of vines in Champagne, and of the making and management of wine there, by Mons. de Rochefontaine, was now read.

CITY OF PHILADELPHIA,

Carpenters' Hall, February 3, 1789.

Present: Mr. Powell (Pres.), G. Clymer, Temple Franklin, Hodgdon, Fisher, Hiltzheimer, Dr. Jones, Griffitts.

This being the day appointed by the laws of the Society for the annual adjudication of the premiums, and it appearing that no claims for them had been made—the committee appointed at last meeting, to revise the laws and list of premiums, to be proposed for the present year, made a report on the latter; which, after some alterations, was agreed to, and the Secretary was desired to have them published in the Columbian Magazine, Museum and Newspapers, in the following form, viz:

PREMIUMS

Proposed by the Philadelphia Society, for Promoting Agriculture, for the year 1789.

1. For the best experiment made of a course of crops, either large or small, on not less than four acres, agreeably to the English mode of farming,—a piece of plate, of the value of two hundred dollars, inscribed with the name and the occasion: and for the experiment made of a course of crops next in merit,—a

piece of plate, likewise inscribed, of the value of one hundred dollars. Certificates to be produced by the 20th of December, 1790.

2. The importance of complete farm or fold yards, for sheltering and folding cattle, and of the best method of conducting the same, so as to procure the greatest quantities of compost, or mixed dung and manure, from within the farm, induces the Society to give, for the best design of such a yard, and method of managing it, practicable by common farmers,—a gold medal:—and, for the second best, a silver medal. The design to be presented to the Society by the 20th of December 1789.

3. For the best method of raising hogs, from the pig, in pens, or styes, from experience, their sometimes running in a lot or field not totally excluded, if preferred,—a gold medal:—and, for the second best, a silver medal. To be produced by the 20th of December 1789.

4. For the best method of recovering worn-out fields to a more hearty state, within the power of common farmers, without dear or far-fetched manures; but by judicious culture, and the application of materials common to the generality of farmers,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1789.

5. For the best experiment, soil and other circumstances considered, in trench-plowing, not less than ten inches deep,—and account of the effects thereof, already made or to be made, on not less than one acre,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1789.

6. For the best information, the result of actual experience, for preventing damage to crops by insects; especially the Hessian fly, the wheat fly, or fly weevil, the pea-bug and the corn chinch-bug or fly,—a gold medal;—a silver medal for the second best. To be produced by the 20th of December, 1789.

7. For the best comparative experiments on the culture of wheat, by sowing it in the common broad-cast way, by drilling it, and by setting the grain, with a machine, equidistant; the quantities of seed and produce, proportioned to the ground, being noticed,—a gold medal;—for the second best, a silver medal. The account to be produced by the 10th of January, 1790.

8. For an account of a vegetable food that may be easily procured and preserved, and that best increases milk in cows and ewes, in March and April, founded on experiment,—a gold medal;—for the second best, a silver medal. To be produced by the 10th of January, 1790.

9. For the greatest quantity of ground, well fenced, in locust trees or poles, of the sort used for posts and trunnels, growing in 1789, from seed sown after Feb. 3, 1788, not less than one acre, nor fewer than 1500 per acre,—a gold medal;—for the second, a silver medal. To be claimed in December, 1789.

10. The Society, believing that very important advantages would be derived from the general use of oxen, instead of horses, in husbandry and other services; and being desirous of facilitating their introduction into all these States; persuaded, also, that the comparative value of oxen and cows must very much depend upon the qualities of their sires and dams; and that, by a careful attention to the subject, an improved breed may be obtained, they propose a gold medal for the best essay, the result of experience, on the breeding, feeding and management of cattle, for the purpose of rendering them most profitable for the dairy and for beef; and most docile and useful for the draught;—and, for the next best, a silver medal. To be produced by the first of January, 1790. N. B. Among other things, the essay should notice the different breeds of cattle, and their comparative qualities; as their sizes, strength, facility in fattening, quantity of milk, &c.

11. It is a generally received opinion, that horses in a team travel much faster

than oxen. Yet some European writers on husbandry mention many instances in which it appeared, not only that oxen would plough as much ground as an equal number of horses; but also travel as fast with a loaded carriage; particularly when, instead of yokes and bows, they were geared in horse-harness, with such variations as were necessary to adapt it to their different shape. To ascertain the powers of oxen in these particulars, and the expense of maintaining them, the Society deem matters of very great moment; and are therefore induced to offer a gold medal for the best set of experiments undertaken with that view;—and, for the next best, a silver medal. In relating these experiments, it will be proper to describe the age and size of the oxen, their plight, the kinds and quantities of their food, the occasions, manner and expense of shoeing them; in travelling, the kinds of carriages used, and weights of their loads, and seasons of the year, and the length and quality of the roads; and in plowing, the size and fashion of the plough, the quality of the soil, the depth of the furrows, and the quantities plowed; and, in every operation, the time expended, and number and sort of hands employed in performing it; with any other circumstances which may more fully elucidate the subject. These experiments will enable the essayist to determine what will be the best form and construction of yokes and bows, and what of ox-harness, to enable oxen, with the best carriage of their bodies and heads, the most ease, and quickest step, to draw the heaviest loads; a description of each of which sorts of gears, explained on mechanical principles, must be subjoined to the account of experiments. To be produced by the first day of January, 1790.

12. For the best method, within the power of common farmers, of recovering old *gullied* fields to an hearty state, and such uniformity or evenness of surface as will again render them fit for tillage; or, where the gullies are so deep and numerous as to render such recovery impracticable, for the best method of improving them, by planting trees, or otherwise, so as to yield the improver a reasonable profit for his expenses therein; founded on experiment,—a gold medal. To be produced by the first of January, 1790.

13. For the greatest quantity, not less than 500 lbs., of cheese, made on one farm, in any of these States, equal in dryness, richness and flavour to the Cheshire cheese usually imported from England, and which shall be produced to the Society by the first of January, 1790,—a gold medal;—and for the next greatest quantity, not less than 250 lbs., of like quality, a silver medal. Besides which, the Society engage to pay for the cheese, so produced, at the rate of ten per cent. more than the then current wholesale price, at Philadelphia, of Cheshire cheese of the same quality.

14. For the best method, deduced from experience, of raising the American white thorn from the seed, for hedges, and the greatest number of plants raised in a space not less than half an acre,—a gold medal;—for the second best, a silver medal. To be produced by the first of December, 1790.

15. The Society, believing that the culture of hemp on some of the low, rich lands, in the neighbourhood of the city, may be attempted with advantage, do hereby offer a gold medal for the greatest quantity of hemp raised within ten miles of the City of Philadelphia; the quantity not to be less than four acres;—for the second greatest quantity, a silver medal. The claim to be made by the first of December, 1789.

The claim of every candidate for a premium is to be accompanied with, and supported by, certificates of respectable persons, of competent

knowledge of the subject. And it is required that the matters, for which Premiums are offered, be delivered in *without names*, or any intimation to whom they belong; that each particular thing be marked in what manner the claimant thinks fit; such claimant sending with it, a paper, sealed up, having on the *outside* a corresponding mark, and on the *inside*, the claimant's name and address.

Respecting experiments on the products of land, circumstances of the previous and subsequent state of the ground, particular culture given, general state of the weather, &c.; indeed, in all experiments and reports of *facts*, it will be well to particularize the *circumstances* attending them. It is recommended that *reasoning* be not mixed with the *facts:* after stating the latter, the former may be added, and will be acceptable.

Although the Society reserve to themselves the power of giving, in every case, either one or the other of the prizes (or premiums), as the performance will be adjudged to deserve, or of withholding both, if there be no merit; yet the candidates may be assured that the Society will always judge liberally of their several claims.

Published by order of the Society.

SAMUEL POWEL GRIFFITTS, *Secretary.*

Philadelphia, Feb. 3, 1789.

There not being a sufficient number of members present, to receive the report of the committee on the revision of the laws, it was agreed to adjourn this meeting to the 9th inst.

City of Philadelphia,

Carpenters' Hall, February 9, 1789. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), Hare, Logan, Pleasants, Hodgdon, Miles, Luke Morris, jr., Dr. Say, Ruston, Griffitts.

The members present not being a sufficient number to form a quorum for transacting the particular business of the evening, it was agreed to adjourn to Monday, the 16th inst.

City of Philadelphia,

Carpenters' Hall, Ferruary 16, 1789. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), Hill, G. Clymer, Dr. Logan, Say,

Griffitts, Mr. Pleasants, Millegan, J. F. Mifflin, Hiltzheimer, Stoneburner, Hodgdon, Ross, Hare.

The committee appointed on the sixth day of January last, to revise the Laws of the Society, according to the 19th section of the Constitution, now made report thereon, which was debated and finally agreed to as follows, viz:

LAWS

Of the Philadelphia Society for Promoting Agriculture; revised and enacted by the said Society, on the sixteenth day of February, 1789.

I. The Society shall be styled—THE PHILADELPHIA SOCIETY FOR PROMOTING AGRICULTURE.

II. The Society's attention shall be confined to *Agriculture and Rural affairs.*

III. The Society shall have a *President*, a *Vice President*, a *Treasurer*, and a *Secretary;* and an *Assistant Secretary*, when the increase of business shall require it; all of whom shall be annually elected, by the tickets of a majority of the members present at the stated meeting of the Society in January; the persons so elected to continue in office one year, and until others shall be chosen in their stead. And in case of any vacancy by death, resignation, or otherwise, the same may be supplied by a new election, to be made at any stated meeting of the Society; the person thus newly elected to serve the remainder of the year.

IV. A quorum for business shall consist of at least five members, including the President or Vice President.

V. At all meetings of the Society, the President shall exercise the usual duties of that office: all motions shall be addressed to him: and on all questions he shall collect and declare the votes. He shall also have power to call special meetings of the Society, by notice published in at least two of the city newspapers. In his absence, the same duties shall be performed by the Vice President. And if it happen, at any meeting of the Society, that both the President and the Vice President be absent, the members present (being a quorum to constitute a regular meeting for the business to be transacted), may choose a Vice President for that meeting.

VI. The Treasurer shall keep the accounts methodically stated in the books of the Society, and, when called upon, produce them for inspection. At the last meeting of every year, and also whenever his office ends, he shall produce a fair and stated account of all receipts, payments and expenditures, and deliver it, together with those books, and all other property of the Society, in his hands, to his successor in office, or to the orders of the Society.

VII. The Secretary and his Assistant shall have in charge all the books and papers of the Society, and keep the same in exact order. They shall also register all letters which shall be written by the Committee of Correspondence, or by themselves by order of the Committee.

VIII. At the annual meeting of the Society in January, shall be chosen a *Committee of Correspondence,* to consist of five members, any three of whom to be a quorum, for the purpose of corresponding with any other society, or persons, touching the objects which this Society has in view. The same members shall also be a *Committee of Accounts,* to receive and adjust all claims against the So-

ciety, for its contingent expenses, and the President shall give orders on the Treasurer for the payment of them.

IX. The *Stated Meetings* of the Society shall be on the second Tuesday in every month.

X. The members of the Society shall be distinguished into *Resident* and *Honorary Members.* The twenty-three persons named when the Society was first proposed to be instituted, and whose names are entered on the minutes of the eleventh of February, 1785, are *Resident Members*, according to the 8th article of the first laws of the Society, enacted on the 15th of March, 1785. All *Resident Members* afterwards added to the Society, were, and shall continue to be, of persons residing within a convenient distance to attend the meetings of the Society at Philadelphia: and these are defined to be such only as, at the time of election, reside within ten miles of the city, on either side of the Delaware. All members of Agricultural Societies, in other States and countries, with whom we shall correspond, and all persons of this State, and of other States and countries, who shall be elected by us for the purpose, shall be *Honorary Members;* and are hereby invited to assist at our meetings whenever they come to Philadelphia. Strangers who desire to be present as auditors, may be introduced by a resident member.

XI. New members, whether resident or honorary, shall be elected by ballot, and the Secretary shall issue notice to each person of his being elected, to the following purport:

On the day of , 17 , A. B., of , was elected [a member, or honorary member] of the Philadelphia Society for promoting Agriculture; the Society inviting his assistance.

C. D., Secretary.

XII. All elections and appointments shall be between eight and nine o'clock in the evening; at one of the stated meetings of the Society. And no person shall be elected a member, whether resident or honorary, unless at a preceding stated meeting he shall have been openly proposed, and such nomination duly entered on the minutes of the Society. The nomination and election to be in the absence of the candidate.

XIII. The Society shall annually propose *Prizes*, upon interesting subjects, relative to actual experiments and improvements, and for the best pieces written on the proposed subjects. And in order most effectually to disseminate the knowledge of useful discoveries and improvements in husbandry, the Society will, from time to time, publish collections of memoirs and observations, selected from such communications as shall be made to them. To promote these views, the friends of agriculture are invited to assist the Society with information of experiments and incidents in husbandry.

XIV. All claims of prizes shall be sent in writing; and, when read, the Society shall determine which of the claims, relative to each prize, shall be selected for their definitive judgment, on a future comparison. This judgment is to be given at a stated meeting on the second Tuesday in February. If it happen, in any case, that there be no *competition* for a prize, but only a *single claim*, the Society will consider such claim. And if the claim or claims be supported, answerably to the views and just expectations of the Society, the prize proposed shall be decreed. *Premiums* and *Prizes* are equally due to persons residing in any of the United States, according to the merit of their respective exhibitions.

XV. For the purpose of defraying the necessary expenses of the Society, for premiums and prizes, books on agriculture, improved instruments on husbandry,

and other important objects, and contingencies, every member shall annually pay to the Treasurer a *contribution* of one dollar. This contribution shall be considered as due and payable at or before the last of December in every year. And, at the first meeting in January, in every year, the Treasurer shall lay before the Society a list of the members, specifying who have and who have not paid their contributions; and any member, whose contribution shall be found to be more than one year in arrear, after the same shall have become due and payable, as aforesaid, provided payment thereof has been personally demanded of him by the Treasurer, or collector authorized by him for the purpose, such member shall be considered as withdrawing from the Society, and be no longer deemed a member of it; and the same shall be entered on the minutes.

XVI. New rules, or alterations to be made in old rules, shall be proposed, and the proposal entered on the minutes at a stated preceding meeting; and may then be made by not less than two-thirds of the members present.

XVII. When any part of the Society's funds is to be disposed of (excepting for ordinary contingent expenses), the same shall be done at a stated, or special meeting, after having been proposed at a previous stated meeting.

XVIII. Still further to advance the objects of this Institution, the Society will promote the establishment of other similar Societies in the United States.

XIX. On the first meeting of the Society in January, in every year, there shall be a revision of the then subsisting rules; and the same shall stand confirmed, so far as two-thirds of the members present, including the President or Vice President, do not revoke or alter them.

The Committee of Correspondence were requested to prepare a list of such books, on Agriculture, as they shall judge most proper, to constitute a Library for the Society; to be presented at next meeting.

A motion was made by Dr. Logan, and seconded by Mr. George Clymer, that this Society do grant twenty dollars to the Philadelphia County Society for promoting Agriculture and Domestic Manufactures, to assist them in purchasing books on Agriculture, for their use.

City of Philadelphia,

Carpenters' Hall, March 10, 1789.

Present: Mr. Powell (Pres.), Pleasants, Griffitts.

But not being a quorum, no business was transacted.

City of Philadelphia,

Carpenters' Hall, April 14, 1789.

Present: Mr. Powell (Pres.), Miles, Ruston, Pickering, Griffitts, J. F. Mifflin, Hodgdon.

The committee appointed Feb. 16, to propose a list of books on Agriculture, not having completed the business, were continued.

The motion made by Dr. Logan, in behalf of the Philadelphia County Society, &c., was now considered, when it was resolved that a compliance with their request for pecuniary aid would be inconsistent with the designs of this Institution.

A letter, signed A Farmer, dated Chester county, Feb. 20, 1789, proposing that the Society should leave it at the option of the successful candidates for premiums, to receive either the medals offered, or the value thereof in money, was presented and read; and, on consideration of the subject, the following resolutions were now proposed, to be determined at the next stated meeting of the Society, viz:

Resolved, That the Society will leave it at the option of the successful candidates for premiums, proposed Feb. 3, 1789, who shall be entitled to the prizes of plate and gold medals, to receive the same, either in that form, or the equivalent thereof in money.

The Secretary was desired to insert special notice of this design in the newspapers—and it was agreed that the value of the gold medals should be fixed by the Society at their next meeting.

A letter from Mr. Thomas Shute, giving an account of the method of planting and gathering cotton in the West Indies, was presented and read, as was also a letter from Mr. Philip Price, relating the proper method of cultivating and rotting hemp. This letter further mentions some difficulties concerning the time fixed for adjudging the 15th premium; to obviate which it was resolved, that the following explanation thereof be proposed for consideration at the next meeting of the Society, viz:

That the time of presenting the claim for the 15th premium, which was fixed to be in December, 1788, be extended to December, 1789—and that the claim of the same, already fixed for December, 1789, be extended to December, 1790.

A letter, signed A Young American Farmer, proposing the establishment of a periodical publication on Agriculture, to be carried on under the inspection of the Society, was presented, read and referred to the Committee of Correspondence.

City of Philadelphia,

Carpenters' Hall, May 12, 1789.

Present: Mr. Powell (Pres.), Hodgdon, Ruston, Wistar, Griffitts, Hiltzheimer.

The committee appointed to prepare a list of books on Agriculture, not having finished that business, are continued.

The resolutions proposed at the last meeting, respecting the premiums of gold medals and plate, and the 15th premium, were now considered and agreed to—and ordered to be published.

It was also agreed, that ten pounds, Pennsylvanian currency, be considered as the value of the gold medals proposed to be given by the Society.

Mr. Hiltzheimer proposed Mr. Caspar Wistar, of Chester county, as an honorary member, and Mr. Andrew Bunner, of this city, as a resident member—and Mr. Hodgdon proposed Col. Andrew Porter, of Chester county, as an honorary member.

The Secretary was directed to have three hundred copies of the revised laws, premiums, and names of the members, printed and distributed amongst the members of the Society.

City of Philadelphia,

Carpenters' Hall, June 9, 1789.

Present: Mr. Powell (Pres.), Pleasants, Hiltzheimer.

But not being a quorum, no business was transacted.

City of Philadelphia,

Carpenters' Hall, July 14, 1789.

Present: Mr. Powell (Pres.), Hollingsworth, Miers Fisher, Hiltzheimer, Miles, Griffitts, Pleasants, Say, Hodgdon, John Vaughan, Samuel Vaughan.

The committee on the list of books, not being yet prepared to report, are continued.

The Secretary reported, that he had had the resolutions respecting the premiums published, and the copies of the laws, &c., printed, as directed at the meeting of May 12, 1789.

Col. Andrew Porter and Mr. Caspar Wistar, of Chester county, were now duly elected honorary members, and Mr. Andrew Bunner, of this city, a resident member of the Society.

The following papers were then presented and read.

The method of destroying the flying weevil in Bavaria; being an ex-

tract of a letter from Mr. Walpole, of Munich, to the Marquis of Carmarthen—presented by Mr. John Vaughan.

Observations on the pea fly or beetle, by Mr. Wm. Bartram, of Kingsess. Presented by Dr. Benjamin Say.

An account of the method generally used in England, of raising white thorn setts or plants; by a person that has made it his general practice nearly thirty years—addressed to the Secretary.

Jacob Hiltzheimer, Esq., presented the produce of several kinds of grain planted in the beginning of September, 1788, with an account thereof, which was read and referred to the Committee of Correspondence.

CITY OF PHILADELPHIA,

Carpenters' Hall, August 11, 1789.

Present: Mr. Powell (Pres.).

No business transacted at this meeting for want of a quorum.

CITY OF PHILADELPHIA,

Carpenters' Hall, September 8, 1789.

Present: Mr. Powell (Pres.), Griffitts.

No business transacted at this meeting for want of a quorum.

CITY OF PHILADELPHIA,

Carpenters' Hall, October 13, 1789.

Present: Mr. Powell (Pres.).

No business transacted for want of a quorum.

CITY OF PHILADELPHIA,

Carpenters' Hall, November 10, 1789.

Present: Mr. Powell (Pres.), Pickering, John F. Mifflin, Griffitts, James Vaux, an honorary member.

The committee on the list of books not being fully prepared to report, are continued.

The following communications were read, viz:

A letter from Mr. Jonathan Ford Morris, dated Middlebrook, August 31, 1789, containing an account of a machine for swingling the shives out of broken flax—with some proposals for procuring and applying manure at a cheap rate, and for amending Col. Morgan's plan of the barn yard—accompanied with explanatory drawings.

A letter from a Southern Farmer, dated July 18, 1789, being a claim for the sixth premium.

City of Philadelphia,

Carpenters' Hall, December 8, 1789.

Present: Mr. Powell (Pres.), Hodgdon, Pleasants, Griffitts, E. Edwards, an honorary member.

A letter from S. A., being a claim for the second and twelfth premiums, was presented and read.

The President reported that he had received from Arthur Young, Esq., the 10th volume of the Annals of Agriculture, as a present to the Society; for which mark of attention the President was requested to return him the Society's thanks.

It was now proposed that a correspondence be opened with the Philadelphia County Society for promoting Agriculture.

The committee appointed to prepare a list of books, not having reported, were continued.

City of Philadelphia,

Carpenters' Hall, January 12, 1790.

Present: Mr. Powell (Pres.), Pickering, Francis, Hodgdon, W. Rush, Hiltzheimer, Haines, J. Redman, M. Fisher, Miles, Hare, T. Coxe, Millegan, Say, Jon. Mifflin, Ruston, Griffitts.

A letter from R. B. Livingston, Esq., dated Clermont, 5th Nov. 1788, on the Hessian fly and scarcity root was read.

Two plans of a farm yard (Nos. 2 and 3), being a claim for the second premium, were presented and read.—N. B. No. 3 was signed Agricola.

Two claims for the 13th premium, marked No. 1 and 2, were also

presented and read. These, with the other claims for premiums, mentioned in the minutes of Nov. 10th, and December 8th, 1789, were referred to Messrs. Pickering, Miles, Hiltzheimer, Rush and Millegan, who are requested to consider the same, and make report thereon, at the adjournment of this meeting, to be held on the 26th inst.

The Society then proceeded to their annual election of officers, when the following were duly chosen, viz:

Samuel Powell, Esq., President; John Beale Bordley, Esq., Vice President; Tench Francis, Esq., Treasurer; Samuel Powel Griffitts, Secretary.

Samuel Powell, Samuel Miles, George Clymer, Robert Hare and John F. Mifflin, Esqs., Committee of Correspondence.

Agreeably to the 19th section of the laws of the Society, a revision of their laws took place, when it was unanimously agreed that they should continue in their present form.

It was referred to the Committee of Correspondence to consider the list of premiums, and to propose such alterations and additions thereto as they shall judge proper.

Mr. Abraham Hunt, of Trenton, New Jersey, was proposed by Mr. Hiltzheimer, and Samuel Ogden, Esq., of Bucks county, by Dr. J. Rodman, as honorary members.

City of Philadelphia,

Carpenters' Hall, January 26, 1790. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), Chas. Vaughan, Geo. Logan, Pickering, Hiltzheimer, Miles, Bingham, I. Wilcox, J. Brown, Nixon, Falconer, Temple Franklin, Pleasants, Jacob Rush, Hodgdon, Philemon Dickinson, Tench Coxe, Tench Francis, John Vaughan, Beach, Dr. Jones, Ruston, Redman.

The Committee on the Barn-yard Systems, and several other claims for premiums, reported, and the report was read.

The cheeses produced for the premiums were examined, and the final determination relative to them, was, agreeably to the rules of the Society, referred to the next meeting.

City of Philadelphia,

Carpenters' Hall, February 9, 1790.

Present: Mr. Powell (Pres.), Francis, Hiltzheimer, Tench Coxe, John Miller, Drs. Say, Ruston, Jones, Griffitts, Mr. Pickering, Saml. Garrigues, Hodgdon, Reuben Haines, Miles, Edw. Shippen, Burd, Falconer, John Ross, R. Bache, Joseph Anthony, William Lewis, Joseph Mifflin.—22.

The report of the committee on the premium, which was produced at last meeting, was now again read, considered and unanimously adopted, and is as follows, viz:

The committee appointed January 12, 1790, to consider the various claims for premiums, offered by the Society, Report—

1. That they have considered the claim of the person calling himself "A Southern Farmer," for the sixth premium, viz: "for the best information, the result of actual experience, for preventing damage to crops by insects," and are of opinion, that the experiments he has stated do not merit the premium he has claimed. That he does not distinguish between the Hessian fly (which, at the time he mentions, 1782, was not known) and the common wheat fly. That his method of destroying the eggs of the insect, which he supposes are lodged on the outside of the grains of wheat, is not of his invention, but, by his own statement, copied from Du Hamel. And that his method of preserving wheat, when threshed, by sifting ashes over it, in alternate layers, and covering the whole with ashes, if effectual, would be a very troublesome expedient.

2. That the claims of the person who subscribes his paper S. A., for the second and twelfth premiums, are wholly inadmissible—his attention and diligence in forming large heaps of compost, from a small stock, merit approbation—but his mode of managing his cattle in the stable appears injudicious. He gives no description of a barn or barn yard. His method of recovering old gullied fields is common to all careful and industrious farmers.

3. That the plan of a farm yard, marked No. 2, and the mode of managing the same, for which the premium, No. 2, is claimed, has no peculiar merit.

4. That the plan of the farm yard, No. 3, and the mode of conducting the same (presented by Agricola), for which the premium, No. 2, is claimed, has particularly engaged the attention of the committee: and, in order more accurately to estimate the merit of this claim, they have made inquiries into some things not stated in the explanation which accompanies the plan; and, upon the whole, are of opinion that it does not entitle its author to the premium proposed. In offering that premium, the Society certainly wished to obtain a design of a barn, sheds and barn yard, as well as a method of procuring great quantities of manure, superior to those already erected and in use in many places in the country: but on considering the plan, and explanation exhibited, together with the information resulting from their inquiries, the committee do not discover such superiority.

The Committee of Correspondence, to whom was referred the business of procuring a list of books, now made report, when it was agreed

that the following books be procured by them for the use of the Society, viz:

[*A Blank here in the original.*]

The Committee of Correspondence were also desired to form regulations for keeping and lending out the books of the Society to the members.

The Committee of Correspondence, not having fully considered the list of premiums, were requested to continue their attention to that business, and to make report thereon at the next meeting of the Society.

Mr. Abraham Hunt and Samuel Ogden, Esq., proposed in January last, as honorary members, were now balloted for and duly elected.

Messrs. Thomas Forrest and John Kaighn, were proposed by Mr. Powell, and James Read, Esq., was proposed by Mr. Garrigues, as resident members.

The parcel of cheeses, fourteen in number (see minutes of last meeting), were now examined by the Society, and it was unanimously agreed that the manufacturer of them was entitled to the thirteenth premium. The letter sent with them was opened, when it appeared that they were the produce of the farm of Mr. Joseph Mathewson, of Kent county, State of Rhode Island. This letter was accompanied with satisfactory certificates.

Whereupon it was resolved, that a committee be appointed to learn what is the present wholesale price of Cheshire cheese, and that they report to the President, who shall then be empowered to draw on the Treasurer for the value of the cheese, with the additional sum of ten per cent., according to the offer held out in the premium, and pay the same to Tench Francis, Esq. The committee are Capt. Anthony, Tench Coxe, Esq. and Major Hodgdon.

The President was also empowered to have a gold medal, with a proper inscription, prepared and forwarded to Mr. Mathewson.

The letter accompanying a letter, signed Stirling, which was sent with three cheeses, was opened, according to the directions contained in this last—and it appearing to be written by William Putnam, Esq., of Massachusetts, it was resolved, that the President be requested to write to Mr. Putnam, acknowledging the receipt of his letters and cheeses, informing him that, on account of there not being a sufficient quantity of them, they do not come within the description proposed in the premium, and that they will be disposed of according to the directions contained in his letter.

It was then resolved, that one of the cheeses of Mr. Mathewson's parcel be selected and presented, in the name of the Society, to the President of the United States.

City of Philadelphia,

Carpenters' Hall, March 9, 1790.

Present: Mr. Powell (Pres.), Hodgdon, Pickering, Drs. Logan, Griffitts.

The President informed the Society, that the committee appointed at last meeting, to learn what was the price of Cheshire cheese, had reported as follows, viz:

After due inquiry we declare, that we find the market price of Cheshire cheese, in the City of Philadelphia this day, to be twelve pence per pound. Witness our hands this 10th Feb., 1790.

Tench Coxe,
Joseph Anthony,
Samuel Hodgdon.

To Samuel Powell, Esq.,
President of the Agricultural Society.

The President further reported, that he had complied with the request of the Society, as mentioned in the minutes of the last meeting (concerning the premiums adjudged), in every respect except forwarding the medal, which was not yet finished.

The President, in behalf of the Committee of Correspondence, reported a list of premiums to be offered by the Society for the present year, which were finally agreed to, and the Secretary was directed to have them published in the different newspapers.

N. B. These premiums are nearly the same as those offered by the Society last year. The only alterations made in them, except the necessary change of the time for claiming them to December, 1790, and January, 1791, were as follows, viz:

No. 9. For the greatest quantity of ground, not less than one acre, well fenced, producing locust trees, growing in 1790, from seed sown after April 5, 1785, the trees to be of the sort used for posts and trunnels, and not fewer than 1500 per acre,—a gold medal;—for the second, a silver medal. To be claimed in December, 1790.

No. 13. For the greatest quantity, not less than 500 pounds weight, of cheese, made on one farm, in any of these States, equal in richness and flavour to the Gloucestershire cheese, hitherto usually imported from England, and which shall be produced to the Society by the first day of January, 1791,—a gold medal;—and, for the next greatest quantity, not less than 250 pounds weight, of a like quality, a silver medal.

In the 15th premium, for four acres read 3 tons.

After this premium the following—

It will be left to the choice of those successful candidates for prizes, who may be entitled to the plate or gold medals, to receive the same, either in plate or medals, or the equivalent thereof in money.

Messrs. Thomas Forrest and John Kaighn, nominated at last meeting, were now balloted for and duly elected resident members.

Dr. Griffitts proposed Dr. Benjamin Smith Barton as a resident member.

An account of a plough, used in the Duchy of Mecklenburgh, and of the manner of stacking hay there, accompanied with drawings, received from an anonymous correspondent, at Baltimore, were now presented and read.

CITY OF PHILADELPHIA,

Carpenters' Hall, April 13, 1790.

Present: Mr. Hiltzheimer, Hodgdon, Joseph Mifflin, Griffitts.—4.
But not being a quorum, no business was done.

CITY OF PHILADELPHIA,

Carpenters' Hall, May 11, 1790.

Present: Mr. Powell (Pres.), Hiltzheimer, Wm. Rush, Griffitts.—4.
Not being a quorum, no business was done.

CITY OF PHILADELPHIA,

Carpenters' Hall, June 8, 1790.

Present: Mr. Powell (Pres.), Milligan, Griffitts.—3.
Not being a quorum, no business was done.

CITY OF PHILADELPHIA,

Carpenters' Hall, July 13, 1790.

Present: Mr. Hodgdon, Griffitts.—2.
Not being a quorum, no business was done.

City of Philadelphia,

Carpenters' Hall, August 10, 1790.

Present: Mr. Powell (Pres.), Pleasants, Hiltzheimer, Griffitts.—4.

But not being a quorum, and some particular business appearing to require a full meeting of the Society, adjourned to the 17th inst.

City of Philadelphia,

Carpenters' Hall, August 17, 1790. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), George Clymer, Hiltzheimer, Pickering, Robert Morris, John Miller, Hodgdon, Kaighn, Drs. Ruston, Jones, Griffitts, Say, and Mr. James Morris, Samuel Ogden, Jonathan Williams, Gen. Hand, honorary members.—16.

The President reported that the gold medal, adjudged February 9, 1790, had been forwarded agreeably to the directions of the Society.

The Secretary reported, that the list of premiums had been published according to the directions of the Society, at their meeting of March 9, 1790.

Sundry machines, relative to agriculture and manufactures, were presented, for the inspection of the Society, by Mr. Samuel Mulliken, with a proposition that the Society would defray the expenses of constructing a threshing machine (the model of which was presented), under the direction of the inventor, and to remain the property of the Society. This proposal, according to the 17th article of the laws of the Society, is to lay over till next meeting for further consideration; and it was agreed, that a special meeting, for this purpose, be held on the 20th inst.

Dr. Benjamin Smith Barton, proposed March 9, 1790, as a resident member, was now duly elected.

Two letters from Noah Webster, jr., Esq., dated Hartford, Connecticut, March 15 and June 15, 1790, offering to the Society one per cent. on the sale of certain publications therein mentioned, together with a paper entitled The Farmer's Catechism, were now read and referred to the following committee, viz: The President, Col. Pickering, George Clymer, Esq., and Dr. Say, who were requested to report thereon at the next meeting of the Society.

A letter from Gen. Hand, dated Philadelphia, August 17, 1790, respecting the preparation of oats for seed with plaster of Paris, was presented and read.

Jacob Hiltzheimer, Esq., presented an account of several kinds of grain (with the produce), planted September, 1789, and March, 1790, which was read and referred to the Committee of Correspondence.

City of Philadelphia,

Carpenters' Hall, August 20, 1790. (*Special Meeting.*)

Present: Mr. Powell (Pres.), Pickering, John Sellers, Nathan Sellers, Tench Francis, Thos. Forest, Saml. Garrigues, J. Kaighn, Ross, J. F. Mifflin, L. Hollingsworth, Drs. Jones, Ruston, Barton, Say, Griffitts.—16.

The committee appointed at last meeting, to consider the letters and catechism sent by Noah Webster, jr., Esq., made report—which was agreed to, and the Committee of Correspondence were requested to write to him accordingly. The report is as follows, viz:

[*A Blank here in the original.*]

Agreeably to the design of this meeting, the Society took into consideration Mr. Mulliken's proposals for constructing a threshing machine, at their expense; but it appearing to them inconsistent to appropriate any part of their funds to the construction of patent instruments of husbandry, from which the inventor expects to derive considerable and peculiar emoluments, they therefore declined accepting Mr. Mulliken's proposal, although they were pleased with the ingenuity manifested in the invention.

City of Philadelphia,

Carpenters' Hall, September 14, 1790.

Present: Mr. Powell (Pres.), Griffitts.—2.
But not being a quorum, adjourned.

City of Philadelphia,

Carpenters' Hall, October 12, 1790.

Present: Mr. Powell (Pres.), Hodgdon, Hare, Griffitts.—4.
But not being a quorum, adjourned.

City of Philadelphia,

Carpenters' Hall, November 9, 1790.

Present: Mr. Powell (Pres.), Pleasants, Hiltzheimer, Drinker, Ruston, Griffitts.—6.

No business coming before the Society, adjourned.

City of Philadelphia,

Carpenters' Hall, December 14, 1790.

Present: Mr. Powell (Pres.), Bordley, V. P., Hodgdon, Ruston, Griffitts, J. F. Mifflin—and J. Williams, an honorary member.

Mr. Jonathan Williams was proposed by Mr. Powell, and Mr. Robert Smith by Mr. Hodgdon, as resident members.

City of Philadelphia,

Carpenters' Hall, January 11, 1791.

Present: Mr. Powell (Pres.), Bordley, V. P., Hill, Hiltzheimer, Bache, Ruston, Arthur Donaldson, J. M. Nesbitt, Edw. Duffield, Matthew Clarkson, Robt. Morris, Tench Francis, George Clymer, T. Pickering, Griffitts, Hodgdon, Nicholson, and J. Williams, honorary member.—18.

A claim for the first premium was presented and read, and the consideration thereof referred to the following committee, viz: Messrs. Bordley, Geo. Clymer, Hiltzheimer and Hill, who were desired to make report thereon at next meeting.

Agreeably to the 19th section of the laws of the Society, a revision of the same took place, when it was unanimously agreed that they should continue in their present form.

By the Treasurer's Report, it appeared that the state of the Society's funds was as follows, January 1, 1791, viz:

In specie, $698.94.

In Pennsylvania paper money, £35 2*s*. 6*d*.

The following persons were duly elected officers of the Society for the present year, viz:

President, Samuel Powell, Esq.; Vice President, John Beale Bordley, Esq.; Treasurer, Tench Francis, Esq.; Secretary, Samuel Powel Griffitts.

Committee of Correspondence, Samuel Powell, George Clymer, Tench Francis, Robert Hare, John F. Mifflin, Esqs.

The Committee of Correspondence were requested to consider the List of Premiums, and propose such alterations and additions thereto as they shall judge proper.

Stephen Moylan, Esq., was proposed by Mr. Hill as an honorary member.

Two letters, received by the President, respecting claims for the 13th premium were read—on which it was agreed that the Society meet on Friday, the 14th inst., at the Episcopal School, at 7 o'clock in the evening, in order to consider these claims.

City of Philadelphia,

Agricultural Society, January 14, 1791. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), Bordley, V. P., M. Clarkson, Pickering, Ruston, Griffitts, Kaighn, J. M. Nesbitt, Nicholson, J. Williams, honorary member.—10.

Two parcels of cheese were presented to the Society, being a claim for the 13th premium. On examination it appeared that there were 250 lbs. of the parcel received from John Hall, of a quality sufficient to entitle him to the silver medal.

City of Philadelphia,

Agricultural Society, February 8, 1791.

Present: Mr. Powell (Pres.), Francis, Griffitts.—3.

Which number not being a quorum, they agreed to adjourn this meeting to the 16th inst.

City of Philadelphia,

Agricultural Society, February 16, 1791. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), Bordley, V. P., Wm. Rush, Hiltzheimer, Jacob Morgan, Saml. Garrigues, Kaighn, Griffitts, John Ni-

cholson, Robert Morris, Jonathan Williams, John Lardner, Hill, Matthew Clarkson, G. Clymer.—15.

Mr. Powell proposed Gen. Walter Stewart as a resident member.

The Society agreed, that the President be requested to have the silver medal prepared and delivered to , for the cheese produced by him on the fourteenth day of January last, as soon as he shall have furnished the Society with the necessary certificates.

The report of the committee, appointed January 11th, to consider the claim for the first premium, was now read, and adopted as follows, viz:

The committee to whom was referred the communication of a set of experiments of a course of crops, made with a view to obtain the Society's medal, report—

That, having given the same a full consideration, they are of opinion that the experiments made, do not altogether come up to the object of the Society, which is, *to procure a set of experiments of a course of crops agreeable to the English method of farming*. They, however, esteem the piece to have considerable merit in it as an agricultural essay, and, as such, recommend to the Society to obtain the author's permission to publish it.

J. Beale Bordley,
J. Hiltzheimer,
Henry Hill,
Geo. Clymer.

February 1, 1791.

The consideration of the premiums to be offered for the present year, was now taken up, a number of them agreed upon, and others referred to the Committee of Correspondence, who are to report thereon at the next meeting of the Society.

City of Philadelphia,

Agricultural Society, March 8, 1791.

Present: Mr. Powell (Pres.), Hiltzheimer, Griffitts.—3.

Not being a quorum, adjourned.

City of Philadelphia,

Agricultural Society, March 16, 1791. (*Adjourned Meeting.*)

Present: Mr. Powell (Pres.), Daniel Clymer, Pleasants, Ruston, Hodgdon, Bache, George Clymer, Samuel Meredith, Samuel Garrigues, Hare, Griffitts.—11.

A letter from the Agricultural Society of the Province of New

Brunswick, dated St. Johns, New Brunswick, 16th Nov. 1790, addressed to the Secretary of this Society, enclosing a copy of their Constitution, and a Treatise on the Mode of cultivating and dressing Hemp; by Abbé Bralle; and requesting a correspondence, was presented and read—and referred to the Committee of Correspondence, to answer the letter, enclose a copy of our laws, and have the Treatise published, if they deem it of sufficient merit.

Two letters from Mr. Samuel Mulliken, addressed to the Secretary, dated the 8th and 16th of the present month, containing proposals for borrowing money of the Society, were now read and referred to the following committee, viz: Dr. Ruston, Messrs. Pleasants, Hodgdon and Meredith.

Mr. Samuel Mulliken was proposed as a resident member, by Dr. Griffitts.

The Committee of Correspondence made report on the premiums referred to them February 16, 1791, which, with some alterations, was agreed to; and the Secretary was directed to have all the premiums, as agreed on by the Society, inserted in the different periodical publications in the following form, viz:

PREMIUMS

Proposed by the Philadelphia Society, for Promoting Agriculture, for the year 1791.

1. The rotation of crops having been found in England constantly to improve the soil instead of exhausting it—and the Society being persuaded that, to this management alone is to be attributed the great comparative products of that country—they esteem it of the first importance to America to gain a knowledge both of the theory and practice of so admirable a system. Within the limits of this article, it is impossible to state, with any useful degree of precision, principles which, after all, must vary with circumstances; but, knowing that some farmers, in Pennsylvania and elsewhere, have already made themselves acquainted with this mode of husbandry; and that it is as much the interest, as it is within the power of all to obtain the necessary knowledge, the Society, without attempting to lay down any particular directions, offer,—For the best experiment of a five years' course of crops, conducted upon principles which have been practised on in England,—a piece of plate, of the value of two hundred dollars, inscribed with the name and the occasion;—and for the experiment made, of a like course of crops, next in merit, a piece of plate, likewise inscribed, of the value of one hundred dollars. The account, with certificates, to be produced by the twentieth of December, seventeen hundred and ninety six.

2. The importance of complete farm or fold yards, for sheltering and folding cattle, and of the best method of conducting the same, so as to procure the greatest quantities of compost, or mixed dung and manure, from within the farm, induces the Society to give, for the best design of such a yard, and method of managing it, practicable by common farmers,—a gold medal:—and, for the second best, a silver medal. The design to be presented to the Society by the 20th of December 1791.

3. For the best method of raising hogs, from the pig, in pens, or styes, from experience, their sometimes running in a lot or field not totally excluded, if preferred,—a gold medal:—and, for the second best, a silver medal. To be produced by the 20th of December, 1791.

4. For the best method of recovering worn-out fields to a more hearty state, within the power of common farmers, without dear or far-fetched manures; but by judicious culture, and the application of materials common to the generality of farms, founded in experience,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1791.

5. For the best experiment, soil and other circumstances considered, in trench-plowing, not less than ten inches deep,—and accounts of the effects thereof, already made or to be made, on not less than one acre,—a gold medal;—and, for the second best, a silver medal. To be produced by the 20th of December, 1791.

6. For the best information, the result of actual experience, for preventing damage to crops by insects; especially the Hessian fly, the wheat fly, or fly weevil, the pea-bug and the corn chinch-bug or fly,—a gold medal;—a silver medal for the second best. To be produced by the 20th of December, 1791.

7. For the best comparative experiments on the culture of wheat, by sowing it in the common broad-cast way, by drilling it, and by setting the grain, with a machine, equidistant; the quantities of seed and produce, proportioned to the ground, being noticed,—a gold medal;—for the second best, a silver medal. The account to be produced by the 10th of January, 1792.

8. For an account of a vegetable food that may be easily procured and preserved, and that best increases milk in cows and ewes, in March and April, founded on experiment,—a gold medal;—for the second best, a silver medal. To be produced by the 10th of January, 1792.

9. For the greatest quantity of ground, not less than one acre, well fenced, producing locust trees, growing in 1791, from seed sown after April 5, 1785; the trees to be of the sort used for posts and trunnels, and not fewer than 1500 per acre,—a gold medal;—for the second, a silver medal. To be claimed in Dec. 1791.

10. The Society, believing that very important advantages would be derived from the general use of oxen, instead of horses, in husbandry and other services; and being desirous of facilitating their introduction into all these States; persuaded, also, that the comparative value of oxen and cows must very much depend on the qualities of their sires and dams; and that, by a careful attention to the subject, an improved breed may be obtained, they propose a gold medal for the best essay, the result of experience, on the breeding, feeding and management of cattle, for the purpose of rendering them most profitable for the dairy and for beef; and most docile and useful for the draught;—and, for the next best, a silver medal. To be produced by the first of January, 1792. N. B. Amongst other things, the essay should notice the different breeds of cattle, and their comparative qualities; as their sizes, strength, facility in fattening, quantity of milk, &c.

11. It is a generally received opinion, that horses in a team travel much faster than oxen. Yet some European writers on husbandry mention many instances in which it appeared, not only that oxen would plough as much ground as an equal number of horses; but also travel as fast with a loaded carriage; particularly when, instead of yokes and bows, they were geared in horse-harness, with such variations as were necessary to adapt it to their different shape. To ascertain the powers of oxen in these particulars, and the expense of maintaining them, the Society deem matters of very great moment; and are therefore induced to offer a gold medal for the best set of experiments undertaken with that view;—and, for the next best, a silver medal. In relating these experiments, it

will be proper to describe the age and size of the oxen, their plight, the kinds and quantities of their food, the occasions, manner and expense of shoeing them; in travelling, the kinds of carriages used, and weights of their loads, and seasons of the year, and the length and quality of the roads; and in plowing, the size and fashion of the plough, the quality of the soil, the depth of the furrows, and the quantities plowed; and, in every operation, the time expended, and number and sort of hands employed in performing it; with any other circumstances which may more fully elucidate the subject. These experiments will enable the essayist to determine what will be the best form and construction of yokes and bows, and what of ox-harness, to enable oxen, with the best carriage of their bodies and heads, the most ease, and quickest step, to draw the heaviest loads; a description of each of which sorts of gears, explained on mechanical principles, must be subjoined to the account of experiments. To be produced by the first day of January, 1792.

12. For the best method, within the power of common farmers, of recovering old *gullied* fields to an hearty state, and such uniformity or evenness of surface as will again render them fit for tillage; or, where the gullies are so deep and numerous as to render such recovery impracticable, for the best method of improving them, by planting trees, or otherwise, so as to yield the improver a reasonable profit for his expenses therein; founded on experiment,—a gold medal;—and for the next best, a silver medal. To be produced by the first of January, 1792.

13. For the best cheese, not less than 500 lbs., weight, made on one farm, within the United States, and which shall be produced to the Society by the first of January, 1792,—a gold medal;—and for the next greatest quantity, not less than 250 lbs. weight, of equal quality, a silver medal.

14. For the best method, deduced from experience, of raising the white thorn from the seed, for hedges, and the greatest number of plants raised on not less than one-eighth of an acre,—a gold medal;—for the second best, a silver medal. To be produced by the first of December, 1793.

15. The Society, believing that the culture of hemp on some of the low, rich lands, in the neighbourhood of the city, may be attempted with advantage, do hereby offer a gold medal for the greatest quantity of hemp raised within ten miles of the City of Philadelphia; the quantity not to be less than three tons;—for the second greatest quantity, a silver medal. The claim to be made by the first of December, 1792.

It will be left to the choice of those successful candidates for prizes, who may be entitled to the plate or gold medals, to receive the same either in plate or medals, or the equivalent thereof in money.

The claim of every candidate for a premium is to be accompanied with, and supported by, certificates of respectable persons, of competent knowledge of the subject. And it is required that the matters, for which Premiums are offered, be delivered in *without names*, or any intimation to whom they belong; that each particular thing be marked in what manner the claimant thinks fit; such claimant sending with it, a paper, sealed up, having on the *outside* a corresponding mark, and on the *inside*, the claimant's name and address.

Respecting experiments on the products of land, circumstances of the previous and subsequent state of the ground, particular culture given,

general state of the weather, &c., will be proper to be in the account exhibited; indeed, in all experiments and reports of *facts*, it will be well to particularize the *circumstances* attending them. It is recommended that *reasoning* be not mixed with the *facts:* after stating the latter, the former may be added, and will be acceptable.

Although the Society reserve to themselves the power of giving, in every case, either one or the other of the prizes (or premiums), as the performance shall be adjudged to deserve, or of withholding both, if there be no merit; yet the candidates may be assured that the Society will always judge liberally of their several claims.

Messrs. Jonathan Williams and Robert Smith, proposed December 14, 1790, and General Walter Stewart, proposed February 16, 1791, were now duly elected resident members, and Stephen Moylan, Esq., proposed January 11, 1791, was duly elected an honorary member.

City of Philadelphia,

Agricultural Society, March 21, 1791. (*Special Meeting.*)

Present: Mr. Powell (Pres.), George Clymer, Kaighn, Ruston, Robert Smith, Pleasants, Samuel Garrigues, Walter Stewart, Griffitts, Hodgdon.—10.

The committee appointed at last meeting, on Mr. Mulliken's proposals, made report—when it was resolved—that these proposals cannot be assented to.

City of Philadelphia,

Agricultural Society, April 12, 1791.

Present: Mr. Powell (Pres.), Ruston, Stoneburner, William Rush, Griffitts.

The President, on behalf of the Committee of Correspondence, reported, that the letter from the Agricultural Society of New Brunswick had been answered.

The Secretary reported, that he had published the premiums according to the Society's directions.

A letter from General Edward Hand, dated Lancaster, March 14th, 1791, being an account of the sequel of some experiments made by sowing oats mixed with plaster of Paris, read before the Society, August 17, 1790, was now read, and both letters were referred to the Committee of Correspondence.

Mr. Samuel Mulliken, proposed March 16, 1791, was now duly elected a resident member.

CITY OF PHILADELPHIA,

Agricultural Society, May 9, 1791.

Present: Mr. Powell (Pres.), Bordley, V. P., Jones, Griffitts, Kaighn.

A letter to the Society, from Mr. Duplaine, proposing to them his services in the management and culture of a small farm for the sake of making experiments in husbandry, was now read, and the consideration thereof was postponed to a future meeting.

A letter from —*r*—, dated Baltimore, April 10, 1791, accompanied with a number of seeds of different species of plants, an account of their properties, and the mode of cultivating them, were presented and read, and referred to the Committee of Correspondence, to publish such parts thereof as they shall judge proper, with an acknowledgment of the receipt of them.

CITY OF PHILADELPHIA,

Agricultural Society, June 14, 1791.

Present: Mr. Powell (Pres.), Robert Smith, Pleasants, Griffitts.—4.
Not being a quorum, adjourned.

CITY OF PHILADELPHIA,

Agricultural Society, July 12, 1790.

Present: Mr. Powell (Pres.), Griffitts.—2.
Not being a quorum, adjourned.

CITY OF PHILADELPHIA,

Agricultural Society, August 9, 1791.

Present: Mr. Ruston, Griffitts.—2.
Not being a quorum, adjourned.

City of Philadelphia,

Agricultural Society, September 13, 1791.

Present: Mr. Powell (Pres.), Kaighn, Griffitts, Ruston.—4.
Not being a quorum, adjourned.

City of Philadelphia,

Agricultural Society, October 11, 1791.

Present: Mr. Powell (Pres.), Ruston, Griffitts, Pickering.—4.
Not being a quorum, adjourned.

City of Philadelphia,

Agricultural Society, November 8, 1791.

Present: Mr. Powell (Pres.), Hill, George Clymer, Miles, Kaighn, Matthew Clarkson, Samuel Garrigues, Griffitts, Ruston.—9.

The President reported, on behalf of the Committee of Correspondence, that the acknowledgment of the receipt of the letter signed —*r*—, mentioned in the minutes of May 9, 1791, had been published in the newspapers.

The Society took into consideration Mr. Duplaine's plan, proposed to them at their meeting of May 9, 1791, and resolved that, although they highly approve of the plan of an experimental farm, yet that it would not be convenient at present to carry the same into execution.

The following letters were read, viz:

One from Col. Alexander Anderson, dated June 1, 1791, to the President, requesting the Society to appoint some of their members to examine a mill of his invention for threshing and cleaning wheat—on which the President reported that, as there had been no meeting of the Society since the receipt of the letter, he had, in company with some of the other members, examined the mill, and that they were of opinion it would be found fully adequate to the purposes for which it was invented.

2. One from Dr. John Coakley Lettsome, dated London, March 22, 1791, accompanied with some Chinese hemp seed. The Committee of Correspondence were requested to answer this letter, and thank the Doctor for the communication.

3. One from Mr. Landon Carter, dated Cleve, March 14, 1791, to William Fitzhugh, Esq., a member of this Society, proposing to the Society a new method of separating wheat from the ear, and cutting straw.

4. One from Robert R. Livingston, Esq., President of the New York Agricultural Society, dated New York, September 23, 1791, requesting information concerning the plaster of Paris—which was referred to the Committee of Correspondence.

The President informed the Society that he had received, through the hands of the President of the United States, the volumes of the Annals of Agriculture, by Arthur Young, Esq., as a present from the author.

The Committee of Correspondence were requested to return to Mr. Young the thanks of the Society for his valuable present, and to inform him, they shall be happy in any communications he shall be pleased to favour them with.

Colonel Alexander Anderson was proposed as a resident member, by Mr. Powel—and Dr. John Coakley Lettsome as an honorary member, by Mr. Garrigues.

City of Philadelphia,

Agricultural Society, December 13, 1791.

Present: Mr. Powell (Pres.), Meredith, Pickering, Samuel Garrigues, Griffitts.—5.

The President reported that he had written to Arthur Young, Esq., agreeably to the directions of the Society at their last meeting. The letters from Dr. Lettsome and Robert R. Livingston, Esqs., remain unanswered.

The Committee of Correspondence, and Col. Pickering, were requested to examine the communications made to the Society, and to report at the next meeting, whether it would be expedient to publish them in a volume, and what papers should be selected for this purpose.

Col. Alexander Anderson was elected a resident member, and Dr. John Coakley Lettsome an honorary member of the Society.

City of Philadelphia,

Agricultural Society, January 10, 1792.

Present: Mr. Powell (Pres.), Pickering, Miles, Ruston, Nicholson, Hiltzheimer, Kaighn, William Rush, Griffitts.—9.

The answers to the letters from Robert R. Livingston, Esq., and Dr. John Coakley Lettsome remain to be forwarded.

The committee to whom was referred the business of selecting papers for publication, at last meeting, not being ready to report, are continued.

A claim for the tenth and eleventh premiums was produced and read, and referred to the following committee: Messieurs Pickering, Miles and Hiltzheimer, who were requested to consider the same, and give their opinion concerning it at the next meeting.

The Society then proceeded to the annual election of their officers, when the following were duly chosen, viz.

President, Samuel Powell, Esq.; Vice President, John Beale Bordley, Esq.; Secretary, Timothy Pickering, Esq.; Treasurer, Tench Francis, Esq.

Committee of Correspondence—Samuel Powell, George Clymer, Robert Hare, Tench Francis, John F. Mifflin, Esqs.

Agreeably to the nineteenth section of the laws of the Society, a revision of the same took place, when the following alterations in them were unanimously agreed to, viz:

Section 5. Instead of "*a quorum to constitute a regular meeting for the business to be transacted*," insert, "*at least five in number.*"

Section 9. Instead of "*every month*," insert "*the months of January, February, March, May, July, September and November.*"

Section 12. Strike out the words "*and such nomination duly entered on the minutes of the Society.*"

The Committee of Correspondence were requested to consider the list of premiums offered last year, and to propose such alterations and additions thereto as they shall judge proper.

City of Philadelphia,

The Society met February 14, 1792.

Present: Mr. Powell (Pres.), Samuel Miles, Dr. Ruston, John Kaighn, Walter Stewart, T. Pickering.

The committee appointed to consider the claim for the *tenth* and

eleventh premiums, grounded on "An Essay on the management of neat cattle, the quality of their food," &c., made the following report, which was read and accepted:

That the Essay does not appear sufficiently to correspond with the views of the Society in proposing those premiums. In the tenth premium, the proposed Essay was to be "the result of experience:" and, in the *eleventh*, the comparative value, or profit, of draught horses and oxen was to be ascertained, by "a set of experiments, with oxen, undertaken with this view." But the Essay exhibits only the *actual practice* of the essayist; supported, indeed, by the opinions of four practical farmers, his neighbours;—but not by *experiments* of *different modes*, to determine which were the best.

That the methods described in the Essay, of "breeding, feeding, and managing cattle," for *the dairy*, for *fattening* and for *the draught*, appear to be those in *common use* among farmers; and that, as the publication of the Essay would afford but little information to practical farmers in general, it cannot entitle the author to the premiums which were the subjects thereof.

At the same time, the committee express their opinion that the author of the Essay is an intelligent farmer; and that the Essay contains some judicious observations, which, if selected and published, might be useful. And that, as the author, not adverting to the caution required by the Society, in claiming premiums, has made known his name, a letter be written to him, expressing the thanks of the Society for his Essay—stating the reasons for which the premiums are withheld—asking permission to select and publish such of his observations as the Society shall think may be useful; and requesting the favour of his correspondence on agricultural subjects.

PREMIUMS.

The Society agree to continue those proposed last year, excepting the *sixth*, which respects the Hessian fly, and other insects.—The 5th, on *Trench Ploughing*, to be open for claims till Dec. 20, 1793.—The 10th, 11th and 12th, till January 1, 1796.—The 15th till Dec. 1, 1792. The 1st till Dec. 20, 1796, as proposed last year. And the residue for one year from the expiration of the times proposed last year—excepting the 7th, which is to be open until the 15th of January, 1794.

The Secretary is to write to the author of the "Essay on neat cattle," &c., agreeably to the above report;—and cause the premiums, now agreed on, to be published in the newspapers.

City of Philadelphia.

Stated Meeting, March 13, 1793.

Present: Mr. Powell, Col. Miles, T. Pickering.

City of Philadelphia.

Stated Meeting, September 11, 1792.

Present: Mr. Powell, Horton, Hiltzheimer, Bordley, Hodgdon, Pickering.

A letter from James Tisdale (dated at Taunton, in Massachusetts, April 6, 1792), was read. He consents that the Society should publish such extracts from his Essay on the Breeding and Management of Cattle, as they shall think useful.

Mr. Bordley is added to the committee for examining and selecting papers communicated to the Society, and reporting such as they think proper for publication.

The President informed the Society that he had received the 15th and 16th volumes of the Annals of Agriculture, presented by the author, Arthur Young, Esq.

The President is desired to send to London for a complete set of the Annals of Agriculture, and for the volumes necessary to complete the broken set now in the hands of the Society.

City of Philadelphia.

Stated Meeting, November 13, 1792.

Present: Mr. Powell, G. Clymer, Bordley, Dr. Wistar, T. Pickering.

The committee chosen to examine and select papers for publication, report that the originals communicated to the Society must be inspected; the record of them being, in some instances, incomplete;—and that no selection had yet been made.

The President reported, that he had engaged Mr. Cruikshanks to send to London for a complete set of the Annals of Agriculture; and would furnish him with a list of the volumes and numbers requisite to complete the set now belonging to the Society.

Read a letter, dated June 12, 1792, from Dr. Charles H. Wharton (in the Delaware State), on the Hessian fly. The President informed the Society that he caused the letter to be published in one of the city newspapers, soon after the receipt of it.

Read a letter, dated Sept. 4, 1792, from Wm. Coxe, jr., Secretary of the Burlington County Society, enclosing proposals for printing a periodical work, to be called "The Farmer's Magazine;" and soliciting the aid of the Society in promoting the undertaking. Whereupon it

was agreed, that twelve copies should be subscribed for by the Secretary.

Read a letter from D. Randolph, dated Presque Isle (in Virginia), describing his improvements in agriculture, and his ploughs.—The President is desired to acknowledge the receipt of the letter, and to request a continuance of his communications; especially of his experiments.

Dr. Wistar produced a small shock of bearded wheat, of a peculiar species,* which, with a quantity of grain of the same kind, was presented to the Society by Edward Pennington, Esq.—He also reported that the grain had been distributed among the following gentlemen, in order to be sown this year, viz. Mr. Powell, Mr. R. Willing, Mr. J. Hiltzheimer, Mr. R. Waln, Mr. L. Stoneburner, and Mr. Wm. Rush.

City of Philadelphia.

Special Meeting, December 18, 1792.

Present: Mr. Powell, Dr. Ruston, Mr. Bordley, Hodgdon, G. Clymer, T. Pickering.

Read a letter, dated Baltimore, 3d Dec. 1792, and signed —*r*—, accompanied with a small bag of Shirret seed. [Latin, Sisanum, Ranunculus hortensis.] The writer says the Shirret is much cultivated in fields and gardens in the province of Zealand, in a good, though sandy soil, somewhat brackish, in the same manner as other garden roots.

Mr. Bordley proposed that a circular letter should be written to correspondents, expressing the obligations of the Society for their communications—requesting a continuance of them—and informing them of the intention of the Society to select the most useful for publication in a volume. He also proposed the draught of a letter for the purpose, which was read, amended, and agreed to.

City of Philadelphia.

Annual Meeting, January 8, 1793.

Present: Mr. Powell, Horton, Bordley, Garrigues, Meredith, Pickering.

The Society revised the laws, and confirmed the same, only amend-

* It had several heads on one stalk—the centre head much the largest—and is probably the Smyrna wheat.

ing the 10th article, to read (in the 2d line of the printed copy) "The survivors of the twenty-three persons," &c.

The Society then proceeded to the election of officers for the ensuing year. The officers of last year were re-elected.

John Taylor (senator from Virginia), was nominated by Mr. Bordley, for an honorary member.

A claim for a premium for upwards of five hundred weight of cheese was read.

A letter from Peter Le Gaux, and his plan for cultivating the vine of Champagne, &c., in the United States, were read; and the President was desired to return them to Mr. Le Gaux, with the thanks of the Society for the communication; excusing the Society from recommending the plan to the Legislature—the Society having had no experience in the subject.

City of Philadelphia,

Stated Meeting, February 12, 1793.

Present: Mr. Powell, Horton, Garrigues, T. Pickering.

Who, not being a quorum, adjourned to Friday, the 15th.

City of Philadelphia,

Friday, February 15, 1793.

Present: Mr. Powell, Hare, Garrigues, Francis, Clymer, Horton, Clarkson, Nicholson, Pleasants, Say, Ruston, Pickering.

The Society examined a parcel of cheese, for which the premium offered by the Society was claimed: the quantity upwards of five hundred weight—sufficiently rich—but not well flavoured. On the question—Is the claimant entitled to the premium claimed? it passed in the negative, by a majority of *eight* to *three*, without the President.

The Society, pleased with the information that the claimant (Mr. Wm. Pearson, of Burlington county, New Jersey) was a spirited, improving farmer, and that he made between three and four thousand weight of such cheese annually—wanting in nothing but flavour—which apparently admitted of correction, by a different, but very practicable process in the making—desire their sense of his laudable attempts to increase and improve the agricultural productions of the country,

might be communicated to him; and direct the Secretary to do the same by letter.

City of Philadelphia,

Tuesday, March 12, 1793.

Present: Mr. Powell, Horton, Clarkson, Nicholson, Hodgdon, Pickering.

A letter from Col. George Morgan, dated Prospect, Feb. 1793, and two papers enclosed, numbered one and two, were read. No. 1, contained directions for making *house-lamb*. No. 2, directions for making good veal, and improving the breed of cattle.

Twamley's Treatise on *Cheese-making* was introduced; and, it appearing to contain important directions on the subject, the Society directed that it be referred to the committee for selecting papers for publication, for the purpose of being abridged and published.

City of Philadelphia,

Stated Meeting, April 9, 1805.

At a stated meeting of the Society, held at the Coffee-house, at the usual hour, on the evening of the second Tuesday, 9th of April, 1805, in pursuance of the laws of the Society, and after notice for that purpose given in several of the public papers—

Present: R. Peters, Geo. Clymer, S. Hodgdon, Wm. Rush, Edward Burd, Chs. Biddle, J. Vaughan, Wm. Lewis, Levi Hollingsworth.

It appearing that the President and Vice President are dead, the members present being a quorum to constitute a regular meeting for the transaction of business, proceeded, between the hours of 8 and 9, to choose a Vice President of the meeting, to serve until a President should be chosen, when it appeared that Richard Peters was duly elected. The Society then proceeded to elect, by ballot, a President, when Richard Peters was unanimously chosen. George Clymer was was elected, in like manner, Vice President, and Samuel Hodgdon was elected Treasurer.

The Society being completely organized, the following nominations for new members were made by John Vaughan, viz:

Honorary members.—Anthony Fothergill, M.D., late of Bath, England; John Jones, Montgomery county, Pennsylvania; Philip Price,

Chester county, Pa.; Wm. West, Delaware county, Pa.; Peter M'Call, Philadelphia county, Pa.; Derich Peterson, Philadelphia county, Pa.; Henry Clymer, Bucks county, Pa.; Wm. Young, State of Delaware.

Resident members.—Thomas Butler, Thos. Cumpston, John Dorsey, Francis Gurney, Geo. Honey, Thos. C. James, Archd. M'Call, James Mease, Robt. Poalk, Dr. Robert Rose, David Sickle, Edward Tilghman, Geo. Willing, Charles Buck, John Craig, Thos. W. Francis, Wm. Guier, Geo. Gillaspie, Jasper Moylan, Wm. Poyntell, Law. Sickle, Robt. Waln, Martin Dubs, Godfrey Haga, John Leamy, Is. W. Morris, John Shallcross, Richard Wistar, Caleb Lownes, Luke Morris, Jos. Sims, Wm. Tilghman, Z. Collins, Stephen Girard, Thos. Lieper, John Miller (M. C.), Wm. Rawle, Geo. Sheaf.

On motion resolved, That the Treasurer be directed to call upon John F. Mifflin, executor of Mr. Bordley, late Vice President of this Society, and receive from him the minutes, and other property (if any) in his hands, belonging to this Society.

On motion, Chs. Biddle, S. Hodgdon, and J. Vaughan, were appointed a committee to make inquiry for, and report to the next meeting of the Society, a proper and convenient place for future meetings, and the terms upon which it can be obtained.

A letter was read from Nathaniel Hall, President of the Bahama Society of Agriculture, accompanying a donation of the rules of that Society, and communications on different subjects addressed to that Society.

John Vaughan presented a copy of the "Rural Socrates," printed at Hallowell, Maine, 1800. Also, two publications of Thomas Moore, of Maryland, viz. "The great error of American Agriculture exposed, and hints for improvements suggested:" Baltimore, 1802. 2d. "An Essay on the most eligible construction of Ice Houses, with a description of a newly invented Refrigerator, to be used by farmers attending markets:" Baltimore, 1804, 2d edition. And, further, a "Treatise on Practical Farming:" by John A. Binns, Fredericktown, Maryland, 1803.

Moved, by Wm. Lewis, that a committee be appointed to take into consideration, and report what alteration may be necessary, if any, in the laws of the Society.—Agreed to.—The President, Vice President, and Wm. Lewis, appointed for the purpose.

City of Philadelphia,

City Coffee House, May 14, 1805.

Present: Mr. R. Peters, Clymer, Hodgdon, Logan, Kaighn, Hollingsworth, Rush (grazier), Vaughan.

The Treasurer reported, that he had received $750, with a small piece of gold coin, from J. F. Mifflin, executor of J. B. Bordley, late Vice President of the Society.

The Vice President reported, that he had received from Mr. Mifflin the old minute book, and book to record the correspondence of the Society, all which were found among Mr. Bordley's papers.

The committee to obtain a room was continued, with liberty to procure, if practicable, the use of a room in the building belonging to the Philosophical Society; and, in case of success, the next meeting of the Society is directed to be held there.

The following persons were put in nomination as members.

Honorary members.—General Geo. Wallace, Braddock's Field, Allegheny county, Pa.; Col. Eb. Zane, Wheeling, Va.; Bazaliol Wells, Steubenville, Ohio; Dr. John M'Dowell, Steubenville, Ohio; George Bolton Lownes, Delaware county; Gen. John Wilkins, Pittsburg, Pa.; Col. Culbertson, Forks of the Sciota.

Resident members —Jacob Sperry, merchant, Philadelphia; Edwd. Pennington, sugar refiner, Philada.

The following persons were duly elected members, between the hours of 8 and 9. See the list—Minutes April 9th.

A letter from Dr. Samuel P. Griffitts being read, in which he requested his resignation of the office of Secretary of the Society might be accepted. It was resolved to comply with his wishes, and that the thanks of the Society be given to him for his past services.

Resolved, That the Society proceed to the election of a Secretary, to supply his place; which being done by ticket, it appeared that Jas. Mease, M.D., was unanimously elected.

Mr. Vaughan presented a drawing of a hoe harrow, used by Mr. Curwen in cleaning corn land, and which he had introduced from Chester county, near Downingtown. One of the hoes was also exhibited at the same time.

Mr. James Humphreys presented to the Society an epitome of Forsyth on the Management of Fruit Trees, and also a work entitled "Gleanings of Husbandry," reprinted by himself.

The committee on the laws made a report, in part, which is directed to be copied into the minutes, and to be laid before the Society at their next meeting, to be then acted upon.

The report is as follows:—

The committee appointed to revise the laws of the Society, make report in part—

1. That Article III. be altered in the following manner:

The Society shall have a *President*, two *Vice Presidents*, a *Treasurer*, and two *Secretaries*. One of the Vice Presidents only, and the senior, if both be present, shall at any meeting perform the duties assigned to the Vice President by the existing laws. One of the Secretaries shall be the *Corresponding*, and the

other the *Recording* Secretary. The former shall assist at any meeting in the general transactions of the Society, and under the directions of the Committee of Correspondence, perform any duties they may require, as connected with those assigned to them. The latter Secretary shall keep the minutes and papers appertaining to, and concerning the ordinary business of the Society. The Corresponding Secretary shall deliver over to the Recording Secretary, all papers for custody, and he shall have the charge of all property, models and collections belonging to the Society. In case the Society do not choose to elect a Recording Secretary, the Corresponding Secretary shall do all the duties assigned to both. The additional officers herein mentioned, and all others whose places are or may be vacated by death, resignation or otherwise, shall be elected in manner directed by the third article, at any stated meeting. They shall continue in office until the annual meeting in January.

The Committee of Correspondence shall act as curators. They shall do all in their power to collect, arrange and preserve all models, instruments, fossils, specimens and every article auxiliary to the purposes of the establishment of this Society. They shall also be a Standing Committee for the distribution of prizes and premiums directed by the Society, and all books, communications and information necessary to promote the views and extend the agricultural influence of the Society in the object of their Institution. The President and Vice President are members of the Committee of Correspondence, or any other committee, ex officio.

The annual subscription shall, in future, be two dollars, including also that of the present year.

City of Philadelphia,

Philosophical Hall, June 11, 1805.

The Society met at the Philosophical Hall, in the room of the College of Physicians, having made an agreement with that body for the use of it, agreeably to the following letter.

June 4, 1805.

Gentlemen,—I had the honour to lay your letter before the College of Physicians, and am directed to inform you that the College propose to reserve Mondays, Tuesdays and Wednesdays, in every week, for their meetings; but in this arrangement they do not mean to interfere with the stated meetings of the Agricultural Society. The rent paid by the College to the Philosophical Society is $40 a year. The Agricultural Society will bear their proportion of one half from the time of their occupying the room.

I am, &c.

THOS. S. HEWSON, *Sec. Coll. Phys.*

Chas. Biddle and J. Vaughan, Esqs.

Present: Mr. Clymer, Hodgdon, Thos. Butler, Kaighn, Vaughan, James, Say, Morris, Hollingsworth, Mease.

The following honorary members were elected between the hours of eight and nine.

Honorary members.—J. M'Intire, Genl. Wallace, Eb. Zane, B. Wells, Dr. J. M'Dowell, Geo. B. Lownes, Genl. Wilkins.

Resident members.—Jacob Sperry, Edw. Cunningham.

Paul Beck was proposed by Mr. Clymer, and Job Roberts by Dr. James.

The Vice President is requested to transfer the books and papers received by him from John F. Mifflin, to the Secretary, who is directed to provide a suitable case for the same, and other conveniences for the use of the Society.

The agreement with the College of Physicians, by the committee, respecting the use of their room, was confirmed.

Mr. Israel W. Morris produced a specimen of *Avæna elatior*, or tall meadow oats, 6 feet high.

The following papers were read:

1. On sheep, by John D. Stiele, of Downingtown.
2. On threshing machines, by David Prentice.
3. On an expeditious mode of rotting flax, as practised by Joseph Cooper, of N. Jersey, by Dr. Mease.

Thanks ordered to be presented to the authors.

A quorum to alter the laws not being present, the business is referred to a future meeting.

The Secretary is directed to have a book prepared for pasting newspaper extracts in.

City of Philadelphia,

Philosophical Hall, July 9, 1805.

Present: Mr. Clymer, Hodgdon, Vaughan, Ross, James, Mease.

The following papers were read:

1. On the disease of cattle, called *Hoven*, by the President.
2. On the utility of Cartwright's three coultered plough, by David Prentice.
3. Observations upon Deneale's threshing machine, by David Prentice.

Dr. Mease exhibited one of Hoxie's patent augurs, for boring post holes in clayey ground, or in other soils free from stones or gravel.

He also showed a mould board of the full size, made upon the plan given by Mr. Jefferson, in the Trans. Amer. Phil. Soc., vol. 5.

Mr. Vaughan presented a plate of Deneale's threshing machine.

Mr. Clymer mentioned that Mr. Henry Clymer found the Indian corn harrow, noticed in minutes of ——, to answer well.

Judge Peters' paper on hoven cattle was ordered to be printed immediately.

The following gentlemen were elected.

Honorary.—Job Roberts, of Montgomery county.

Resident.—Paul Beck, of Philadelphia.

Nominations by J. Vaughan—Gavin Hamilton, Dr. John R. Coxe, of Philadelphia.

By Dr. Mease—Wm. Bakewell, of Fatlandford, Montgomery county, Moses Marshall, of West Chester.

By Dr. James—Thos. Porter, of Bucks county.

City of Philadelphia,

Philosophical Hall, August 13, 1805.

Present: Mr. Clymer, Vaughan, James, Rose, Mease.

The members proposed at the last meeting were balloted for and chosen.

Dr. Mease reported that he published Judge Peters' paper on "*Hoven Cattle*," in our newspapers, as ordered at the last meeting.

Mr. Vaughan was requested to purchase for the use of the Society, the following books:

1. The Transactions of the various Agricultural Societies in the United States.
2. Deane's New England Farmer.
3. Binns on Gypsum.
4. Lawrence's Farmer Kalender.
5. A. Young's do.
6. Communications to the Board of Agriculture of England.

The following nomination was made—Zachariah Poulson, of Philadelphia.

City of Philadelphia,

Philosophical Hall, September 10, 1805.

Present: Mr. Clymer, John Miller, Vaughan, Mease.

Not being a quorum, adjourned.

City of Philadelphia,

Philosophical Hall, October 8, 1805.

Being State election evening, no meeting was held.

City of Philadelphia,

Philosophical Hall, November 12, 1805.

Present: Mr. G. Clymer, S. Hodgdon, L. Hollingsworth, Geo. Gillespie, I. W. Morris, J. Vaughan, Dr. Say, Mr. George Honey, A. M'Call, J. Dorsey.

Read a communication from Joseph Cooper, of N. Jersey, dated 1st September, on his method of rotting flax, of which he sent also a copy to the Trenton American.

An account of Dr. Mease's tour through some of the counties near Philadelphia.

Mr. Zachariah Poulson, proposed 13th August, was balloted for and duly elected.

Proposed by George Clymer, as a member, Jacob Shoemaker, of Philadelphia.

By John Vaughan—Joshua Humphreys, jr., of Philadelphia.

By S. Hodgdon—Mr. William Montgomery, of Philadelphia.

Read a letter from Richard Peters, President, 30th October, enclosing application of Henry Nagle and Samuel M'Ferran, to borrow the boring machine, with a view of examining some property in the Northern Liberties, for coal, which they expected to find, accompanied also by another letter from Peter Browne, recommending the Society to loan it.

Resolved, That their request be granted for a reasonable time, and that Mr. Peter Browne be desired to take an exact account of the state it is in, and take a duplicate receipt, one to be lodged with the Secretary, and the other retained by himself, in order to examine it when returned.

Mr. Vaughan, having stated that he had paid Jacob Leybrant for a book-case for the Society, - - - -	$26 75
To George Flake, for painting do. - - -	4 67
To Jane Aitken, for stationary and books, - -	18 33
To James M'Glathery for a pair of candlesticks, -	2 50
	$52 25

The Treasurer is directed to pay the same.

Mr. Vaughan mentioned that Mr. Bralle's method of watering hemp in two hours' time (published by order of the Minister of the Interior of France), is detailed in Nicholson's Journal, Vol XI. 8vo. p. 87.

Adjourned.

City of Philadelphia,

Philosophical Hall, December 10, 1805.

Present: Mr. Samuel Hodgdon, John Kean, George Honey, John Vaughan, George Clymer, Caleb Lownes.

Report from Richard Peters and Wm. Lewis (partial.)

"That the annual subscription be from the commencement of the present year, and thereafter, till further order be taken by the Society on the subject, two dollars; to be paid by each resident member." The committee beg further time to complete their report on the other parts of the duties assigned them.

Between the hours of eight and nine the following persons were elected resident members.

Messrs. Jacob Shoemaker, of Philadelphia; Joshua Humphreys, jr., of Philada.; William Montgomery, of Philada.

Mr. Vaughan presented an account he had paid to Mr. Broom, for covering the table with green cloth, $3.38—ordered that the same be repaid by the Treasurer.

As the election of officers is to take place, according to the rules of the Society, at the next stated meeting in January, the Secretary is directed to give due notice thereof, as also that the laws will be revised, and the quantum of annual contribution be determined.

Proposed by Caleb Lownes, as honorary members, Messrs. William Coxe, of Burlington, N. Jersey; John Thompson, of Springfield, Pennsylvania.

As resident member.—Mr. Thomas Harper, of Philadelphia.

Adjourned.

City of Philadelphia,

Philosophical Hall, January 14, 1806.

Present: Mr. Richard Peters (Pres.), George Clymer (V. P.), Caleb Lownes, John Kean, Samuel Hodgdon, Gavin Hamilton, John Vaughan.

Read a communication of Joseph Cooper, of N. Jersey, on the best method of preserving peach trees (dated 13th Jan.), written in consequence of a method recommended, which he disapproves of.

Wm. Coxe, of Burlington, duly elected an honorary member.

John Thompson, of Springfield, Penna. do.

Thomas Harper, of Philada., was elected a resident member.

The Society then proceeded to the ballot of officers, when Richard Peters was elected President. George Clymer was elected Vice President. Samuel Hodgdon, Treasurer. James Mease, Secretary.

The Society then took under consideration the amount at which the annual contribution should be rated, agreeably to the proposal of the committee read at the last meeting.

Resolved, That said report be adopted, and that two dollars be the annual contribution, and due for the last year from the resident members.

Resolved, That the President and Vice President be requested to make a list of books which may be useful for the Society to possess, and be authorized to purchase the same. The amount not to exceed three hundred dollars.

Resolved, That the President and Vice President, and Caleb Lownes, be a committee to prepare a list of premiums, and report to the next meeting.

City of Philadelphia,

Philosophical Society, February 11, 1806.

Present: Mr. George Clymer, Levi Hollingsworth, Wm. Rush, Caleb Lownes, Samuel Hodgdon, Robt. Rose, John Vaughan.

Read a communication from Richard Peters (Belmont), on peach trees and other fruit trees. The method pursued by him was, baring the root and pouring a quart or more of hot water or soapsuds thereon, commencing about 10 or 12 inches above the root—and he dipped his young trees (say the root) from the nursery, also in hot water, before planting them.

A few grass seed, from Louisiana (sent by Judge Rodney to his son in Delaware State), was presented by Mr. Shallcross. The seed were delivered to Caleb Lownes, to try to raise it, and give an account thereof to the Society.

Joseph Cloud and Jeremiah Parker, of Philadelphia, Joseph Kirkbride and Thomas Paul, of Philadelphia county, were proposed as resident members. The two first by John Vaughan, the third by Wm. Rush, the fourth by C. Lownes. Col. Lewis Morris, of South Caro-

lina, as an honorary member, by the Vice President. Mr. Samuel F. Bradford, having requested the assistance of the Agricultural Society to examine the article of Agriculture in his edition of the Cyclopedia, and assist him in adapting it to this country,—

Resolved, That Mr. Clymer, R. Peters and C. Lownes, be a committee to see Mr. Bradford, and ascertain how far the Society can assist his views as connected with the public good, and to report to the Society.

C. W. Peale's account for firewood and candles for one year was presented, and the amount, ten dollars, directed to be paid.

Mr. Geo. Clymer, carpenter, presented a model of a ploughshare—a request was directed to be made to him to furnish a description and information relative thereto.

Mr. Levi Hollingsworth communicated, orally, that he had found pounded brick to be particularly useful in fattening poultry, and occasioned a considerable saving of food. He had made the experiment in consequence of hearing that Mr. F. West, of this city, had practised it with success in fattening turkies.

Mr. Vaughan mentioned that Dr. Barton had received an account of the great use of charcoal in fattening cattle and stock, to be given with their food.

Adjourned.

City of Philadelphia,

Philosophical Hall, March 11, 1806.

Present: Mr. Geo. Clymer, I. W. Morris, T. C. James, J. Vaughan,

After reading the minutes—

Mr. Vaughan informed the Society that he had procured the offer for the Society, of Martyn's edition of Miller's Gardeners' and Botanists' Dictionary, folio: to be 2 Vols. folio, 9 Nos. each volume. 16 numbers were laid before the Society—the remainder to be furnished, and the whole paid for, at the original sterling cost.—Agreed the same should be taken by the Society.

Richard Peters, jr., proposed as a member, by John Vaughan.

For want of a sufficient number of members, the election of persons proposed as members was postponed.

Adjourned.

City of Philadelphia,

Philosophical Hall, April 8, 1806.

Present: Mr. George Clymer (V. P.), Samuel Hodgdon, A. M'Call, Mr. Shallcross, Levi Hollingsworth, J. Vaughan, Wm. White, Mr. Honey, Wm. Rawle.

The minutes of the last meeting were read.

Also, a letter from Dr. Mease to George Clymer, from St. Simons, dated Jan. 1806, covering an account of Mr. Jacob Worrell's (of Frankford, Philadelphia county), machine for hulling clover, and recommending the same to be published in the newspapers, and to be communicated to the Agricultural Society at Washington.

Ordered, that an abstract of the account of the machine be published, with a note of the recommendations, and mentioning where it can be seen.

The Vice President produced the proposals of S. W. Johnston, of Brunswick, New Jersey, for a publication on the method of making houses of earth in the manner of the Pisé of the French in the Leonois: price $2. The Secretary ordered to subscribe for a copy.

The following persons were elected members of this Society:

Resident members.—Messrs. Joseph Cloud, Jeremiah Parker, Joseph Kirkbride, Thomas Paul.

Honorary member.—Col. Lewis Morris.

Mr. Wm. Rawle nominated Mr. John Clifford as a resident member, and Bushrod Washington as an honorary member. Mr. Shallcross proposed Dr. James Tilton, of Wilmington, Del., as an honorary member.

Mr. Shallcross presented an account of the establishment of the Cleveland Society of Agriculture, in England, with an account of the premiums.

The Vice President reported that, by orders of the committee appointed for that purpose, the following books had been purchased by Mr. John Vaughan:

8vo.	The Domestic Encyclopedia: 5 vols. Philadelphia, 1804. Willick. Edited by J. Mease, M.D. - -	$15 00
8vo.	Bordley's Agriculture, 2d edit. 1801. Philada. -	2 50
8vo.	Forsyth on Fruit Trees. Philada. 1802, -	2 00
8vo.	New York Agricultural Society Transactions, 1 vol. 2d edit. Albany. 1801, - - - - -	1 75
8vo.	Marshall's Rural Economy, 14 vols. - - -	35 00
	viz. Southern counties, Kent, &c. 2 vols. Lond. 1798.	
	Yorkshire, 2d edit. 2 vols. „ 1796.	
	West of England, Devon, Somerset, Dorset, 2 vols. „ 1796.	

Norfolk,	2 vols. Lond.	1795.
Gloucestershire (Dairy), 2d edit.	2 vols. ,,	1796.
Midland Counties, 2d edit.	2 vols. ,,	1796.
Southern do. new edit.	2 vols. ,,	1799.
	14 vols.	

8vo. M'Mahon's Gardener's Calendar (Bernard), Pa. 1806,	$3 50
8vo. Phytologia of Erasmus Darwin. Dublin, 1806,	3 00
Richard Peters on Plaster of Paris. Philadelphia, 1797,	50
Essay on Live Stock, by Geo. Culley. 3d edit. Lond. 1801,	1 00
Miller's Gardener's Dictionary, purchased by Jos. Priestley, 15 Nos. at 10*s.* 6*d.* and 1 No. at 12*s.* 6*d.*—£8 10*s.* sterling at par, - - - - - - - -	37 78
The remaining numbers to be procured by him.	
	$102 03

The foregoing is the original sterling cost in London; vide Minutes, March 11.

Ordered, that the above amount be paid, by the Treasurer, to Mr. John Vaughan. Also, that the President and Vice President be a committee to report rules for lending books of the library to the members.

Mr. Rawle proposed that the best method of destroying garlic should be made the subject of a premium. V. Am. Phil. Inst. Vol. I. p. 311.

The improvement of the breed of cattle was suggested as a proper object for a premium.

These subjects were referred to the committee appointed the 14th of January.

Mr. Rawle informed the Society that the field mice destroyed the roots of one-tenth of his acasia hedges, viz. during the winter, and that, from the experience of his neighbour, Montmollin, the American white thorn appeared to succeed much better than the English white thorn—both grow from seed, which must be two years in the ground. Mr. Shallcross mentioned a species of thorn, near Wilmington, which had a more rapid growth, and became, in one season, large enough to be transplanted.—It was observed, that yellow willow made good garden fences.—Green willow said also to be good for fencing.

Adjourned.

City of Philadelphia,

Philosophical Hall, May 13, 1806.

Present: Mr. Richard Peters (Pres.), George Clymer (V. P.), Thomas Paul, Wm. Rush, jr., Caleb Lownes, Joseph Kirkbride, John Kaighn, John Vaughan, A. M'Call, Joseph Cloud, Levi Hollingsworth, Thomas Harper, A. Fothergill, a visitor, —— Muller, who is forming a large settlement 25 miles below Pittsburg.

Minutes read.

A letter, dated 17th April, 1805, from Nehemiah Bartlett, Secretary to the Bath Society, to Dr. A. Fothergill, was read, relative to merino sheep, and to early wheat, of which samples had been sent by Dr. F. to the Bath Society.

A letter was read from the Corresponding Committee of the Society, for encouraging agriculture and rural economy at New London, requesting the Society of Philadelphia to correspond, &c.

Ordered, that the letter be acknowledged, and N. L. Society informed that the P. Society will cheerfully receive or communicate information.

Letter from Wm. Coxe, of Burlington, acknowledging receipt of his certificate of election.

Mr. John Clifford was elected a resident member.

Dr. James Tilton, of Wilmington, D., was chosen an honorary member.

Mr. Bushrod Washington, having been long an honorary member, was not balloted for.

Mr. Adam Eckfeldt, of Philadelphia, was proposed by Mr. Cloud as a resident member.

Mr. Peter Brown having, by letter, represented that Messrs. Nagle and M'Ferran had made considerable progress in boring for coal, with the auger of the Society, and wished to retain it another month. Leave was granted them to do so.

Mr. John Kaighn produced a specimen of what is called Jersey marle, which has been very friendly to vegetation there, when used as a manure.

Mr. Kaighn and Mr. C. Lownes were appointed a committee to procure sufficient specimens of marle (or what was called so) from Burlington, Springfield, New Mills, &c., and are directed to get them analyzed. Mr. Joseph Cloud requested to assist in analyzing them. The President made mention of a shell marle near Carlisle.

Mr. John Vaughan produced to the Society the following books, purchased of F. Nichols by him, by order of the committee, viz:

8vo. History of Esculent Plants, by Chas. Bryant, London, 1783, - - - - - -	$2 50
12mo. Modern English Fruit Gardener, by R. Preston. London, 1785, - - - -	1 70
16mo. Gentleman and Farmer's Assistant Calculator, by Jno. Cullier. 4th edition, - - -	80
8vo. New Farmers' Calendar, by Jno. Lawrence, 4th edit. London, 1802, - - - -	3 40
4to. Communications to the Board of Agriculture. London. 4 vols. 1st and 2d edit. 1804; 2d edit. 2. 1805; 3d pt. 2d edit. 1802; 3d pt. 2d edit. 1804; Vol. 4, 1805, - - - - - -	33 00
8vo. Farmers' Magazine. Edinburgh. 6 vols: I. edit. 5th, 1802; II. edit. 3d, 1802; III. 1803; IV. 1803; V. 1804; VI. 1805, - - - -	20 00
4to. Joiners' and Carpenters' Assistant, by Peter Nicholson, 2d edit. London, 1805, - - -	6 00
8vo. Treatise on Cattle, by John Lawrence. London, 1805,	3 75
4to. Treatise showing the intimate connection between Agriculture and Chemistry, by Earl of Dundonald. London, 1803, - - - -	3 50
	74 65
5 per cent. allowance made by F. N. to the Society,	3 73
	$70 92

Labels for the books directed to be procured.

Which amount was ordered to be paid to John Vaughan.

The President gave some account of the Barbary mountain sheep, which had been procured for him by General Eaton, which he has found peculiarly adapted to this climate. The old ram was sent by him to General Hand, of Lancaster county, where the breed has acquired considerable reputation. Round bodied, short legs, and fattens fast—subject, at first, to a disorder of a severe running between the cleft of the hoof, but was readily cured by a strong decoction of poke-berries or roots.

Mr. Joseph Cloud mentioned that Mr. B. M'Mahon's method of raising thorn plants, as described in his Gardeners' Calendar, had been successfully tried by him at Mr. Eckfeldt's, where a very large quantity of them could be now seen, ready to transplant.

Mr. Job Roberts, of Montgomery county, said to have a very fine breed of hogs, with very little bone.

Mr. A. M'Call mentioned that he had imported a breed of hogs from

Spain, and introduced them into Maryland—they were under the care of Mr. Heath there—hardy, 200 lbs., round bodied, very prolific.

Mr. Cloud mentioned the plan of a machine for sowing plaster of Paris—on two wheels, with a hopper—which was, by the motion of the wheels, made to shake the plaster into a spreading sifter. He was requested to furnish a drawing or model, with a practical description of it.

Modes of getting rid of garlic, suggested by the members.—Mr. Lownes, winter and summer ploughing; Rush, throwing the ground into green grass and winter feeding of cattle; Cloud, manure the land (in Chester county), sow clover, cut the clover and garlic before the latter seeds—in 3 years destroyed.

Luzerne having been mentioned, it was observed that the best method was to sow it broad cast, with clover—the latter protects the former—cut it two years, and the luzerne takes place of the clover.

The Secretary directed to collect lists of premiums proposed by Agricultural Societies here and in Europe, and furnish them to the committee appointed 14th January, to propose premiums for this Society.

Mr. Muller gave some account of his new establishment.—For the meadows and for orchards, they completely cut down the trees, but in other places girdled them. In addition to the object of increasing the quantity of land to be cultivated, he was induced to do it because potash did not pay the labour, and because he wished to preserve the timber for iron works and distilling; and because he disapproves of exposing the land too suddenly to the sun's heat, had cleared 100 acres meadow, 100 upland, and in 5000 acres, had upwards of 2000 persons settled; he had 5000 acres unsold, which he meant to reserve; he had procured 6 of the merino sheep from Mr. Humphreys, at 100 dollars each. The President remarked, that experience proved that it was, in general, much better to clear fully, being much more productive than when timber was girdled, independent of the constant danger and disadvantage to the crop, of falling limbs.

Col. Neville's method of killing squirrels was mentioned.

Mr. Paul informed that Mr. David Peacock, $1\frac{1}{2}$ miles from Vincenttown, New Jersey, near Mount Holly, had invented a mould board, which had great merit, and was in great demand. The castings are made at Hampton furnace, and Mr. Paul has ordered one—the land side, mould board, all cast but the share. Smith, of Bucks county, sued him for an infringement of his patent, but was cast—cost, $11.

Joseph Cooper is getting some cast of another form.

The following books, ordered by the committee, have not been as yet obtainable.

Mills on Cattle, Anstruther on Drill Husbandry, Essays on Agriculture, from the French.

City of Philadelphia,

Philosophical Hall, June 10, 1806.

Present: Mr. Clymer, Hodgdon, Vaughan, Fothergill, Shallcross, A. M'Call, Mease, Dorsey, Cloud, Henry Clymer.

Letter signed "Manure" read.

Vice President nominated Mr. James Kelton, of Chester County, as an honorary member.

Adam Eckfeldt, nominated last meeting, was unanimously elected.

Mr. Vaughan mentioned that he had imported some luzerne and saintfirn seed, which he offered to the Society at first cost.

Mr. H. Clymer mentioned that Mr. Cole, of Moorestown, N. Jersey, told him, that the farm next his had a body of marle in it.

Mr. Shallcross mentioned that a neighbour of his father's (Mr. Pearce), near Wilmington, had found that the thorns raised at the City of Washington, answered better and vegetated quicker than the New Castle thorn.

Dr. Mease showed half a pint of wheat, which had been raised in Ireland, from that brought, some years since, from Palestine, by the eccentric Mr. Whaley, of Dublin, whose walk to the Holy Land has been often noticed in the papers. It was shrivelled and unequal in whiteness, a circumstance that led to the opinion that the sample was not entirely of one kind, and suggested the propriety of separating the seeds when they were sown next autumn. The straw of the wheat, when first brought from Palestine, was a strong reed, not hollow, but filled with a nutritious sap or pith, which renders it, as a provender for horses or neat cattle, equal to oats. The straw bears a clump of many ears, and the grain, large and full, yields an unusual quantity of the finest flour. The original cultivator sold his seed wheat at ten guineas the stone.

The production of the Palestine wheat led to a general conversation on the subject of the various kinds of wheat in Pennsylvania; and it was remarked, the flour from Morrisville and Bristol mills was eagerly sought after by the bread bakers, by reason of its toughness, and that such flour always brought one dollar more per barrel than any other brand; owing, probably, in the first place, to the grain, which may be of a peculiar kind, and to the soil in which it grows; but chiefly to the grain being ground lively, round and high—technical phrases not understood by any but millers—but probably meaning that the flour is not reduced to so fine a powder as in the common mills. Biscuit bakers, for obvious reasons, do not like the Bristol nor Morrisville flour.

It was mentioned, that the Sicily wheat was cultivated in New Jersey, and that Mr. R. Patterson could inform respecting it.

Dr. Mease showed specimens of fine Sea Island cotton, in pods, and golden rice, in sheaf, from the Altamaha; also a black sandy substance, which came from Josiah Reeves, of Evesham, New Jersey, and used there with great success as a manure.

Mr. Cloud showed a rough draught of a plan by which he intended to recover a swamp meadow by detaining the mud suspended by a creek running through it. He was requested to give a description of his plan in writing, and to note his success at a future time.

City of Philadelphia,

Philosophical Hall, July 8, 1806.

Present: Mr. Clymer, Vaughan, Dorsey, Mease, Eckfeldt, Cloud, Poulson.

Mr. Clymer presented a paper from Mr. Peters, containing subjects for premiums to be given by the Agricultural Society; they were read and referred to Mr. Clymer, Mr. Cloud and Dr. Mease, to prepare for the press, and to superintend their printing in hand bills.

Mr. James Kelton was elected, unanimously, a member of this Society.

City of Philadelphia,

Philosophical Hall, August 12, 1806.

Present: Mr. Clymer, Vaughan, Hodgdon, Fothergill, Mease.

A communication from Paul Cooper, on a mode of depriving bull calves of their horns, was read.

Mr. Vaughan was requested to buy Cointeraux's agricultural work, in French, for $2.

Mr. Clymer proposed Mr. Albinus Logan, of Stenton, as a resident member.

Dr. Mease proposed George Izard, of Back county, as an honorary member.

City of Philadelphia,

Philosophical Society, September 9, 1806.

Present: Mr. Clymer, Vaughan, Mease, Fothergill, Hamilton, John Miller.

A paper from Judge Peters was read, on the following subject.*

Another, being a supplement to his former communication on peach trees: mentioning Mr. Heston's peach orchard in his neighbourhood.

Dr. Mease read an extract of a letter from G. W. P. Custis to him on the subject of the Persian sheep and their crosses, which he (Mr. C.) has in Virginia.

G. Izard and Albinus Logan were elected unanimously—the former an honorary, and the latter a resident member.

Mr. Vaughan presented Cointeraux's work, in French, which he had bought by order of the Agricultural Society for $2, viz. "The Errors of my age, with respect to Agriculture, pointed out."

G. W. P. Custis, of Arlington, near Alexandria, was proposed by Dr. Mease, as an honorary member; and also Paul Busti, as a resident member.

Mr. Vaughan presented an ear of maize, raised by Mr. Busti, which ripened in eight weeks from planting; and promised to procure more, as seed, for next spring.

Dr. Mease proposed that the Society shold hold regular shows of cattle, at stated periods, near the city; at which time, also, a trial of ploughs, and other agricultural implements might be made. It was resolved to hold an extraordinary meeting on Monday, the 15th September, inst., at 12 o'clock, to take the proposition into consideration, and that notice shall be given of the same in the papers.

City of Philadelphia,

Philosophical Hall, September 15, 1806.

Present: Mr. Curwen, Vaughan, G. Hamilton, Mease, J. Dorsey, Thos. Paul, G. Clymer, G. Honey, C. Biddle, J. Miller, Peters, J. Clifford, C. Lownes, Wm. Rush, Cloud, Eckfeldt, Hodgdon.

The Society took into consideration the proposition of a cattle show and fair, and exhibition of ploughing, when it was resolved to refer the same to a committee, with instructions to report thereon, and take into

* *Sic* in the original.

consideration every thing relative to the subject they may deem proper for the information of the Society.

Messrs. Peters, Wm. Rush, Lownes, Mease and Hodgdon were appointed.

City of Philadelphia,

Philosophical Hall, October 14, 1806.

Present: Mr. Clymer, Hodgdon, J. Miller, Vaughan, Lownes, Mease. Caleb Kirk, from Yorktown, also attended, introduced by Dr. Mease.

A communication from Wm. Young, of Rockland Farm, Delaware State, was read, on smut in wheat, with a sample.

The paper was referred to Mr. Lownes and Mr. Cloud, to report on.

Mr. Custis and Mr. Busti, both proposed at the last stated meeting, were unanimously elected.

The President enclosed a letter to him from P. Legaux, dated Spring Mill, Sept. 10, 1806, informing him of a new harrow and new wheelbarrow, which the said Legaux had invented, and inviting the Society to inspect them at the farm of the Vine Company of Pennsylvania.

A communication, signed "Trifle," was read, accompanied by an ear of sprouted Indian corn, which had been covered by gypsum, for the purpose of taking a cast of it while in its unripe state. For several weeks after the plaster adhered firmly to the ear, but, in consequence of the sprouting of the ear, the coat was forced off—the sprouts were from a quarter to an inch in length.

Mr. Kirk detailed his plan of deepening the soil, as a substitute for trench ploughing, by first cutting the surface with the coulter (the bouts ten inches apart), and then cross ploughing it; then stirring the earth in the bottom of the furrow with a shovel plough, three inches broad. The advantages of this plan he stated to be, the employment of few horses and the possibility of performing the work in very dry weather, when the greatest force can scarcely drag a plough through the ground. He promised a written communication on the subject.

The Vice President and Secretary were appointed a committee on the subject of a seal for the Society, and to report a plan for an act of incorporation.

Mr. Vaughan mentioned that he had bought, for $2 a volume, the "Cours complet d'Agriculture, theorique, pratique," &c., in 10 vols., and offered the same to the Society. It was resolved that the offer be accepted, and the Treasurer is desired to pay for the same.

City of Philadelphia,

Philosophical Hall, November 11, 1806.

Present: Mr. Clymer, Vaughan, Hodgdon, Bakewell, Mease, J. Miller, A. Logan, Fothergill, Cloud. Mr. Kirk, jr., of Yorktown, also attended, being introduced by Dr. Mease.

Mr. Vaughan mentioned that he had bought the concluding numbers (17 to 21 inclusive) of Martin's edition of Miller's Gardeners' Dictionary, to complete the set in possession of the Society, and produced them. The treasurer was desired to pay for the same.

Dr. Fothergill presented a communication on the subject of smut in wheat, written at the request of the Society at the last meeting.

Mr. Kirk produced an ear of Indian corn, having twenty-six rows,* of the kind which his father cultivates, near Yorktown. It is yellow and flinty, with little farina, and flattish. Eight half bushels of this corn yield five bushels of shelled corn.

A communication from C. Kirk, of Yorktown, was also read, detailing his mode of preparing land for wheat, and a description of his ploughs.

Dr. Mease read some observations on smut in wheat, which were written in consequence of Mr. Young's paper read at last meeting. He also read a letter to him from J. Taylor, Esq., of Port Royal, Virginia, containing remarks upon the early or Isbell wheat of that State, and mentioning an extensive hedge of cedars he had planted round his farm, viz. 7 miles in length, or 18,460 cedars, at two feet distance.

Mr. Vaughan showed an ear of white corn, which was brought from near the Pacific Ocean—it consisted almost entirely of farina.

Dr. Mease showed two ears of white corn, raised by Mr. Crosier, of Burlington Island—the grains are very large, and the ear inches long. They were not the largest of the crop.

Mr. Vaughan read a paper on an expeditious mode of propagating thorns, from roots of the plant, by Samuel Taylor, which the Secretary was desired to have published in the newspapers. The paper was originally printed in the Trans. Soc. Arts, London, for 1801.

City of Philadelphia,

Philosophical Hall, December 9, 1806.

Present: Mr. Clymer, Burd, J. Miller, Vaughan, Mease, Fothergill, Say, Hodgdon, Cloud, M'Call, Lownes.

* Some have 36 and even 40 rows.

Mr. Dechey, from Chester county, attended, being introduced by Mr. Miller.

Dr. Mease read a letter from Josiah Reeves, of Evesham, N. Jersey, giving an account of the beneficial effects of a mineral substance upon grass, especially clover, and produced a specimen of the substance. He also read a note from Dr. Leybert, on its analysis, by which it appears that the chief and active ingredient is a ferruginous clay.

A letter from C. Kirk, of Yorktown, was read, on the subject of his mode of preparing land for tillage, in a way more expeditious and less expensive than that of trench ploughing.

Mr. Vaughan presented a letter from Paul Busti, on the subject of the early Italian corn, which ripens in 8 weeks; some ears of the corn were also produced and given to Messrs. Cloud, Say, Dickey and Miller, who were charged to report their success therewith.

City of Philadelphia,

Philosophical Hall, January 6, 1807.

A meeting was called by mistake.—Present: Mr. Clymer, J. Clifford, Wm. Young.

A conversation ensued on the subject of transplanting trees; and particularly of removing cedars, in consequence of Mr. Taylor's experiment of a cedar hedge being mentioned.

Mr. Young said he had removed cedar trees of a considerable size, by the following means: he dug round the trees in the autumn; in the course of the winter the ditch filled with water and froze, and when the ground was hard, towards spring, he dug up the tree, with the soil adhering to the roots, and put them in a hole prepared for the purpose, taking care to place the tree opposed to the same quarter of the compass as formerly. Mr. Clifford mentioned that the best way to transplant tulip poplars is to cut off the top and remove the stump, taking care to preserve the roots and to trim the roots which may be wounded by the spade. The yellow poplar's root runs down—the white poplar runs horizontally.

City of Philadelphia,

Philosophical Hall, January 13, 1807.

Society met at 1, P. M.—Present: Mr. Clymer, Say, Hodgdon, Rush, Mease.

A letter from David Meade Randolph, of Tuckahoe, Virginia, was read, requesting the loan of the boring instruments, or a description of them. The Secretary was desired to furnish the latter.

A letter from Caleb Kirk, of Brandywine, was read, accompanying samples of wheat infected with the smut, which prevails in that quarter. 2. Of wheat cleaned of the smut, after having been passed through the barley mill.

A letter from Caleb Kirk, of Yorktown, on the subject of his improved mode of ploughing, was read.

Mr. Peale presented a bill for fire wood and candles, amounting to $11.50, for which an order was passed.

Dr. Mease mentioned that he had received Mr. Poulson's bill for printing the premiums, amounting to $5, which was ordered to be paid.

Mr. Rush mentioned a fine crop of potatoes and corn which he had raised this season, and promised a communication on the subject.

Dr. Mease read an advertisement, respecting a useful book for farmers, entitled "The Farmer's Account Book," printed in London, which he was desired to import for the Society.

The Society then proceeded to the election of officers of the Institution, when the following members were elected:

Richard Peters, President; George Clymer, Vice President; Samuel Hodgdon, Treasurer; James Mease, Secretary.

The Society then adjourned to the Shakspeare Hotel to dinner.

City of Philadelphia,

Philosophical Hall, February 10, 1807.

Present: Mr. J. Vaughan, J. Mease, J. Miller.

Not a quorum—Mr. Clifford proposed J. Garnett, of N. Jersey; N. Comegys and Wm. Fitzhugh, of Maryland; Daniel Cowgill, of Dover; Samuel Dickey, of Chester county, as honorary members.

City of Philadelphia,

Philosophical Hall, March 10, 1807.

Present: Mr. R. Peters, Dr. Say, Mease, J. Vaughan, T. Pickering, S. Meredith.

R. Peters laid before the Society a model of a press, invented by Timothy Matlack.

Ordered, that the Treasurer of the Agricultural Society pay thirty dollars to the College of Physicians for eighteen months' rent of the room in which the Agricultural Society holds their meeting.

Mr. Peters proposed J. B. M'Kean, of Philadelphia, as a resident member.

Mr. Pickering mentioned that Thomas Mains, of Georgetown, Maryland, told him that the American native thorn was superior to the European thorn, which he brought with him from Europe.

Mr. Peters moved that a committee be appointed to examine the communications to the Society, in order to prepare for publication, in a volume, such as may be deemed worthy, and to extract from works already published, such matter as may be deemed useful, to add thereto.

The President, Vice President, Dr. Mease, John Vaughan and C. Lownes were appointed.

James Caldwell and Frederick Heiss were nominated by Dr. Mease, as resident members.

John Garnett, of New Brunswick, N. Jersey; Nathaniel Comegys, of Head of Chester, Maryland; Daniel Cowgill, of Dover, Delaware; Mr. Fitzhugh, of Hagerstown, Maryland, and Samuel Dickey, of E. Nottingham, Chester County, Pennsylvania, proposed at the last meeting, were elected honorary members.

City of Philadelphia,

Philosophical Hall, April 14, 1807.

Present: Mr. G. Clymer, S. Hodgdon, J. Vaughan, Drs. Fothergill and Mease.

A communication from Algernon Roberts, of Blockley, was read, giving an account of the receipt and expenses of a dairy for eight successive years, with a statement of the quantity of grain raised during the same period, and the general average per acre. The number of acres for the support of the dairy not being mentioned, the Secretary was desired to request Mr. Roberts to complete his statement by giving the quantity of ground devoted to the dairy.

James Caldwell and Frederick Heiss, proposed at the last meeting, were elected members.

City of Philadelphia,

Philosophical Hall, May 12, 1807.

Present: Mr. Richard Peters, Clymer, J. Miller, Vaughan, Fothergill, Hodgdon, Mease.

A model of a threshing machine, by Mr. Napp, of Cooperstown, N. York, was exhibited.

A letter from Mr. Peters, on the injury of clover to orchards, with a letter on the same subject, by Wm. Coxe, of Burlington.

The President mentioned that Mr. Meeker, who is going to England, offered to bring any agricultural product for the Society.

Dr. Mease said he had seen a good account of the spring wheat of White Well farm, Engfield chase, England, which is cultivated by Dr. Wilkinson.

Dr. Fothergill mentioned the Jonash pear for making perry.

Dr. Mease promised to request Mr. Meeker to bring them over.

Dr. Fothergill took out Agricultural Transactions Society, N. York.

Dr. Mease's 2d vol. from Board of Agriculture, London, returned June 4th.

City of Philadelphia,

Philosophical Hall, June 9, 1807.

Present: Mr. Clymer, Fothergill, Cloud, Mease, Hodgdon, Mr. Kelton, of Chester county.

Dr. Mease read a letter from Caleb Kirk, of Delaware, respecting a disease which prevails in Maryland, in the wheat, particularly near Elton—and, also, offered to the Society the work on the sales of America, which he had ordered from the son of the author—price $12.

It was resolved to take this work.

Dr. Fothergill took out the first and second volumes of the Domestic Encyclopedia.

Samuel Gibson, of Kingsess, was proposed as a member, by Dr. Mease.

City of Philadelphia,

Philosophical Hall, July 14, 1807.

Present: Mr. Clymer, Fothergill, Shallcross, Vaughan, Mease, Hodgdon.

No communication.

Dr. Fothergill returned the Domestic Encyclopedia, and took out the 3d, 4th and 5th.

Samuel Gibson was elected a resident member.

Dr. Mease read a paper containing an account of an improved wagon ladder, by Moses Coates, of Chester county.

City of Philadelphia,

Philosophical Hall, August 11, 1807.

Present: Mr. Clymer, Lownes, Poulson, Fothergill, Gillespie, Mease.

A paper on the use of Cedars, by J. Taylor, of Virginia, as live fence, was read by Dr. Mease; also a letter from W. P. Custis, of Alexandria, on the same, enclosing a lock of native coral, from Smith's Island, on the capes of Virginia. The specimen is very fine. Dr. Mease also read a statement from A. Roberts, respecting the size of his dairy farm, the profits and expenses of which constituted the subject of a paper at a former meeting.

Dr. Fothergill returned the volumes of the Domestic Encyclopedia, taken out at last meeting, and took out Mr. M'Mahon's Gardening.

City of Philadelphia,

Philosophical Hall, September 8, 1807.

Present: Mr. Clymer, Fothergill, Vaughan, Heiss, Mease.

The following communications were read:—

To Rd. Peters, a letter from John Keemle, of Philadelphia, giving an account of the cultivation and produce of a quart and pint of Jerusalem wheat, with a sample of wheat and one of the heads.

A letter from D. M. Randolph to Dr. Mease, giving an account of some varieties of wheat cultivated by him at Tuckahoe, Virginia.

A letter from Joseph Capner to Dr. Mease, on the subject of three kinds of worms which infest sheep, viz. one in the nostrils, and two in the guts.

Joshua Cresson's bill for transcribing papers for Agricultural Society was presented and passed for $6.

Mr. Heiss mentioned that one bushel of flaxseed sown upon one acre of middling quality of land, and manured with four bushels common salt, produced ten bushels of seed, but he supposes that, if care had been taken to thresh it well, eleven bushels might have been obtained.

Dr. Fothergill took out Transactions Board Agric. Vol. 1.

City of Philadelphia,

Philosophical Hall, October 13, 1807.

Present: Mr. Clymer, Fothergill, Vaughan, Cloud, Mease.

The following papers were read:—

An account of the yellow matter in horses, with a successful mode of cure, by R. Peters.

A paper on gypsum, by Do.

An account of the dimensions of the forest trees of the United States, by J. Pearson, of Darby.

A letter to Dr. Mease, from J. Adlum, of Havre de Grace, Maryland, on the subjects of turnips and succession of forest trees.

A letter to Dr. Mease, from G. W. P. Custis, with a box of wool of various sheep on his farm, and from the wild sheep on Smith's Island, on the coast of Virginia.

City of Philadelphia,

Philosophical Hall, November 10, 1807.

Present: Mr. C. Clymer, Fothergill, Vaughan, Miller, Crampstone, Mease.

Mr. J. Lang presented the three first volumes of the Agricultural and Commercial Magazine, printed in London. He mentioned that a correspondent of his, in Edinburg, who desired his name concealed, had sent them to him to present to some Society in this country.

Thanks were ordered to be presented to Mr. Lang, and, through him, to his correspondent, for the generous present.

Dr. Mease explained the use of the shovel plough, coulter plough and ripper, which he had ordered from Caleb Saile, of Yorktown, and offers to the Society, to be preserved as models—they cost $12.

Dr. Mease proposed Mr. Samuel Meeker as a resident member.

Mr. John Vaughan proposed Mr. Joseph Priestley, of Northumberland, Pa., as an honorary member.

City of Philadelphia,

Philosophical Hall, December 8, 1807.

Present: Mr. Clymer, Hodgdon, Miller, Fothergill, Rush, Mease, Vaughan, Hamilton.

The following communications were read:—

A letter from Mr. Peters on peach trees, and their decay in this State, was read.

Also, one from Dr. Tilton, on the same subject.

A supplementary letter, by Mr. Peters, on gypsum, as a manure, and on the theory of its operation.

A letter from Mr. Ashford, of Delaware county, to Mr. Vaughan, containing an account of his improvement upon a poor soil—the utility of oxen—the great benefit derived from lime.

Mr. Meeker and Mr. Priestley were elected unanimously.

Mr. Hodgdon proposed Winthrop Sargeant, of Natches, and Samuel Bayard, of Princeton, as honorary members.

Mr. Vaughan proposed Anthony Morris, of Philadelphia, as a resident member.

Mr. Miller proposed John Lang, of this city, as a resident member.

The President, Vice President and Secretary were appointed a committee to obtain an act of incorporation.

Dr. Fothergill took out 3d and 4th vols. of Com. to Board of Agriculture.

Mr. Nicholls sent his bill of $4.23, for the 7th vol. of the Farmer's Magazine, which he imported for the Society.

The Vice President ordered payment for the same.

City of Philadelphia,

Philosophical Hall, January 12, 1808.

Present: Mr. Clymer, Miller, Heiss, Dr. Mease, and Mr. Dickey, of Chester county, Hamilton, Fothergill.

Dr. Mease read two letters, addressed to him, one from Col. Humphreys, on the subject of his manufactory of woollen cloths in Connecticut, and exhibited four specimens of them.

The other letter, from Thomas Main, of Georgetown, Potomac, on the subject of the thorns of the United States.

Dr. Mease presented a pamphlet on the subject of hedge planting, by Mr. Main, to the Society.

Mr. W. Sergeant, Mr. Bayard, Mr. Morris, and Mr. Lang were elected.

Mr. Clymer took out Marshall's Account of Kentucky, vol. 1.

Dr. Fothergill returned Comm. to Board of Agriculture, 3 vols.

Mr. Miller took out 4 vols. Comm. to Board of Agriculture.

A bill of $20, from the College of Physicians, for the rent of the room, was presented and passed—the year ended on the 10th December, 1807.

Dr. Mease also presented a bill for $19.32, for postage of several letters addressed to the Society, freight of, and cost of Mr. Kirk's plough, and Mr. Custis's box of wool and transcribing papers for the press.

City of Philadelphia,

Philosophical Hall, January 16, 1808. (*Extraordinary Meeting.*)

Present: Mr. George Clymer, J. Vaughan, Samuel Hodgdon, Benj. Say, J. Mease, Wm. Young.

The following officers were chosen officers of the Society for the year 1808.

President, Richard Peters; Vice President, Geo. Clymer; Treasurer, Saml. Hodgdon; Secretary, James Mease.

Dr. Mease showed a pocket-handkerchief, containing printed figures of various agricultural implements, presented to the Society by Mr. Meeker. He also read a letter from Mr. Custis, on the subject of his sheep.

City of Philadelphia,

Philosophical Society, February 9, 1808.

Present: Mr. Clymer, Vaughan, Lang, Cloud. Secretary was sick. No quorum.

City of Philadelphia,

March 8, 1808.

The Society met at the Secretary's house, he not being well enough to go out.

Present: Mr. Clymer, Vaughan, Hodgdon, Miller, Cloud, Mease.

The following papers were read:—

A paper by Mr. Bakewell, on the use of the three furrow plough, invented by Mr. Cartwright.

Joseph Cooper on the cultivation of native grapes, and on making wine from them. Three samples, of the produce of 1805–6–7, were shown. They were part of a quantity made from the grapes of a large vine, growing on his farm.

On coarse flour, brown bread, and the force of habit, as it relates to esculent, by R. Peters.

On hemlock for live fences, by do.

On trench ploughing, by do.

On the thickness, cement, and materials of walls, by do.

On herbage and shrubs spontaneously produced, after forest timber burnt, by firing the woods, by do.

On draining by same, Dickey, of Chester county.

Account of an economical stove for kitchens, with a drawing, by do.

Account of speltz, by C. Kerk, of Yorktown.

Account of a district of poor land, in Chester county, with directions from Mr. Peters for farming it to advantage.

The following members were proposed by Dr. Mease:

Honorary.—Joseph Capner, of Flemington, N. Jersey; Caleb Kerk, of Brandywine; Caleb Kirk, of York county, Pa.; Thomas Maine, Georgetown, Potomac; D. B. Muller, Beaver county, Pa.; Paul Cooper, N. Jersey; David Humphreys, Connecticut; Mr. Du Pont and Mr. Baduy, Delaware; John D. Steele, near Downingtown; John Exter, Pittstown, N. Jersey; Mr. Pearson, Burlington county, N. Jersey; Miles Smith, Esq., of New Brunswick, N. Jersey.

As resident.—B. Chew, jr., Germantown; Mr. Philips, of Philada.; George Sellers, of Delaware county; Archibald Binney, James Ronaldson. Mr. Dunbar, who was proposed in December, was elected unanimously.

City of Philadelphia,

Philosophical Hall, April 12, 1808.

Present: Mr. Peters, Clymer, Miller, Lang, Hodgdon, Vaughan, Rose.

The following communications were presented and read.

On Gypsum—whether it is found in the United States—by Richard Peters.

On changes of timber and plants—races of animals extinct, by do.

All the members proposed at the last meeting were balloted for and elected unanimously.

City of Philadelphia,

Philosophical Hall, May 10, 1808.

Present: Mr. Clymer, Heiss, Lang, Ronaldson, Mease and Baduy, of Wilmington.

Letter from Paul Cooper, of Woodbury, N. Jersey, was read, acknowledging the receipt of his certificate of election, and noticing the neglect of our farmers with respect to improvement of cattle and sheep.

Dr. Mease read an extract or condensed account of the very extraordinary produce of butter and milk in England. The original appeared in the communications to the British Board of Agriculture.

A letter from Caleb Kirk, of Brandywine, was read, acknowledging the receipt of the certificate of membership.

Mr. Heiss mentioned the following facts, with respect to that variety of wheat called speltz, of which notice is taken in our Memoirs.

1. That when the grain has been wet, in harvesting, the flour of it does not rise well.

2. That the unshelled grain makes excellent feed for horses.

3. That the chaff makes very comfortable beds.

4. That the flour of speltz takes little water to cause it to rise.

Mr. Cooper, in his letter, mentioned the great importance of chancing the ram to improve the breed of sheep.

Mr. Heiss said that, by an attention to that measure, when he lived in the county of Dauphin, he had improved his sheep very much, and had shorn eight and nine pounds of wool; but that the man who rented his place, by neglecting to follow the same plan, had caused the flock to degenerate greatly in the course of a few years.

Mr. Lang took out Danvin's Physologia—(returned.)

City of Philadelphia,

Philosophical Hall, June 14, 1808.

Present: Mr. Clymer, Vaughan, Lang, Mease.—No quorum.

City of Philadelphia,

Philosophical Hall, July, 1808.

Present: Mr. Clymer, Mease.—No quorum.

City of Philadelphia,

Philosophical Hall, August 9, 1808.

Present: Mr. Clymer, Gillespy, Dorsey, Ronaldson, Lang, Hodgdon.—J. Vaughan acted as Secretary.

Mr. Wm. Barrett, from Chestertown, Maryland, attended.

The following papers were read.

On lime, as a manure, by J. Lang.

A statement of the profit and loss of the agriculture of the House of Employment, presented by J. Lang.

Samuel Stockton's account of money paid to the Treasurer for books (Agricultural Memoirs) sold, was read. The amount was $90.

John Harding's (bookseller, London) catalogue of books, which he sent to the Society by Capt. Bliss, was read. The amount was £11 4*s.* sterling. Capt. Bliss received $50.

He kindly brought them free of freight and commissions. The duties amounted to $8.12.

Miss Aitken's account for printing the first vol. of Memoirs of the Society, was presented. Amount $474.12. Referred to the Printing Committee, and, if found correct, the account to be settled.

The Vice President and Secretary were appointed a committee to consider the propriety of presenting copies of the Agricultural Memoirs to other Agricultural Societies, and how far it would impede the sale and prevent the reimbursement of the cost.

The thanks of the Blockley and Merion Society of Agriculture, were presented, for the gift of a copy of the Memoirs of the Philadelphia Society, which had been presented by Mr. Peters. The gift was approved of.

The following resolution was sent by Mr. Peters to the Society.

"Ordered, that the President be authorized and requested to present to Dr. Rush, a volume of the Memoirs of the Agricultural Society, as a testimony of their sense of the service rendered to the agricultural interest of our country, by the able and impressive lecture delivered by him to his pupils on the subject of the diseases of our domestic animals," [at the opening of his course of medical lectures in November last.]—Adopted.

Mr. Barrett took a copy of the Agricultural Memoirs, and paid $2.50 for it to the Treasurer.

Mr. P. M'Kell was proposed as a resident member, by Mr. John Lang.

City of Philadelphia,

Philosophical Hall, September 13, 1808.

Present: Mr. Clymer, Lownes, Mease, Vaughan, Harper, Lang.—Mr. S. Vaughan, an honorary member.

Dr. Mease proposed John Cox, of Burlington county, N. Jersey, and Anthony Taylor, of Philadelphia,* and Samuel West, of Delaware, and John Nicholson, of Gipton, near Leeds, Yorkshire, as honorary members.

Mr. Lownes mentioned the great benefit he had derived from spreading earth from a well upon a poor piece of ground.

Mr. Vaughan related that Mr. Curwen had received, also, great advantage from a similar experiment.

City of Philadelphia,

Philosophical Hall, October 11, 1808.

Present: Mr. Clymer, Vaughan, Lang.—No quorum.

City of Philadelphia,

Philosophical Hall, November 8, 1808.

Present: Mr. Clymer, G. Hamilton, Cloud, Vaughan—the Secretary sick.

* Since removed to Bucks county.

Mr. Cloud informed the Society that he had found, last summer, that butter, meat, &c., let down a well, near the water, was not as well preserved as when put on a platform of loose boards, about four feet below the mouth of the well. He attributed the superiority of his mode to the cold produced by evaporation of the moisture which oozed through from the earth above, and fell on the platform.

Mr. Cloud stated that Hadley Baldwin, of Newton township, Chester county, had, probably, put on his land, upwards of 20,000 bushels of lime in the course of twenty years.

Mr. John Morrison, near Jenkintown, was proposed by Mr. Gavin Hamilton as an honorary member. David Moore, of Chester county, was proposed by Mr. Cloud, as an honorary member. Mr. Wm. Robertson, of Philadelphia, by G. Hamilton. Mr. J. Van Eys, of Amsterdam, by Dr. Mease.

City of Philadelphia,

Philosophical Hall, December 13, 1808.

Present: Mr. Hodgdon, Heiss, G. Hamilton, Lang, J. Caldwell, Mease, Vaughan, Clymer.

A letter from Paul Cooper, of Woodbury, N. Jersey, was read, on hedges, and on poisonous plants of N. Jersey.

Dr. Mease read an account of the produce of Jos. Cooper's grapevine; and mentioned that he had received a letter from Mr. Thouin, Professor of Agriculture, Paris, in answer to one written to him, which stated that he had sent a box of seeds for the Agricultural Society of Philadelphia—the box has not yet arrived.

Dr. M. stated that he had prepared a letter to Mr. Warden, Secretary to the American minister, Paris, to whose care the box had been committed, requesting him to expedite the box. That he had sent two copies of the Memoirs of the Agricultural Society to the Board of Agriculture of London, one to the Society of Arts, London, and to a few private persons in London and England, by the last public ship, the Union, that sailed in Sept., having first obtained the permission of the President of the United States for the purpose.

The following gentlemen were elected.

Jos. B. M'Kean, Philadelphia, proposed March, 1807; Anthony Taylor; Samuel West, Delaware county; John Nicholson, of Gipton, Yorkshire; John N. Van Eys, of Amsterdam; John Cox, Burlington county; John Morrison, Jenkintown; David Moore, Chester county; P. M'Kell, Philadelphia.

Mr. Caldwell stated that he had been disappointed in the cultivation of lucerne in New Jersey, although the soil was light: that it did not bear the heat and drought of the last summer, and turned yellow. He sowed it alone and broadcast.

Mr. Lang said, that when it turned yellow it should be cut, and that it would then grow up strong.

Dr. Mease said, that Mr. Muller (or Mr. Detman Basse) found it useful to sow clover and lucerne together: that the clover served to protect the lucerne, during the first year, from the sun, and when it died out, the lucerne took its place. He also stated, that a patch, which he saw at Burlington, 15th October, 1806, had been cut four times in one season, and that on the day just mentioned it was nearly six inches high.

Mr. Heiss mentioned, that in a German work, it was stated to be the practice to sow peas as a cover for lucerne, but that care must be taken not to cut too close to the ground.

Mr. Cooper's letter, alluding to the injury of worms to the English thorn, reference was had to the stem of a thorn in the cabinet of the Society, which had been sent by Mr. Capner, of Flemington, New Jersey, last year, to show the mode in which they were attacked. The worm entered a little above the ground, penetrated directly to the heart, and then descended to the roots.

Dr. M. mentioned that Mr. Steele, of Downingtown, had told him there was a fine hedge near that place, only four years old from the haw: it was five feet from the ground, and a good fence. The thorn was the *Crætægus Cordata*, called by Mr. Main, the American hedge-thorn, and is noticed in the Agricultural Memoirs.

Mr. Vaughan mentioned that a fine plantation of thriving locust (Robinia pundo-acacia), belonging to the late Mr. Russel, of Boston, had been destroyed some years since by a worm. He promised to obtain from Mr. Charles Pinckney an account of his Chinese irrigating machine in S. Carolina.

City of Philadelphia,

Philosophical Hall, January 10, 1809.

Present; Mr. Clymer, Hodgdon, G. Hamilton, Lownes, Lang, Miller, Mease.

Dr. M. stated that he had received information of the box of seeds from M. Thouin, having been sent by Mr. Warden to Bordeaux, to the care of the American Consul, but that, owing to the sickness of that person, the box had not come in the Charleston packet, which vessel had lately arrived here.

He read a letter to Mr. Nicholson, of Gipton, near Leeds, requesting information on the subject of the merits of the bull which he had sold for 100 guineas; also, Mr. Nicholson's answer, and a reply.*

A paper by Mr. Lang, on the advantages of harrowing grain in the spring, was read.

The Society proceeded in the election of officers, when the following were chosen.

President, Richard Peters; V. President, George Clymer; Treasurer, Samuel Hodgdon; Secretary, James Mease.

Dr. M. stated that the bill for incorporating the Agricultural Society was brought before the Legislature last winter, by Mr. Cope, but owing to the multiplicity of business was not passed. That application was made to Dr. Leib last week on the subject, and his attention to it requested; but suggested the propriety of the attendance of some of the members of the Society at Lancaster, to promote the passage of the bill during the present session. The proposition was approved of, and Dr. Mease was charged with the business.

Mr. Andrew Michaux, botanist, of Paris, was proposed as an honorary member, by Dr. Mease.

City of Philadelphia,

Philosophical Hall, February 14, 1809.

Present: Mr. Vaughan, G. Hamilton, Lang, Wm. Philips, Mease.

Dr. Mease stated the steps he had taken at Lancaster to effect the incorporation of the Society: that he had learned, since his return, that the bill had passed the lower house by a large majority; and that he had written to several members to expedite its passage: that he had also written to some members, friendly to the measure, to propose the purchase of the Memoirs by the State, but desired that the motion might not be made unless a majority could be counted upon.

The following papers were read:—

A letter on peach trees, and one on the cultivation of the onion, by Mr. Philips, of Philadelphia.

A letter from Jacob Shearer, of Philadelphia county, and one from Jonathan Roberts, of Montgomery county, both on the planting of corn. They were private letters to Dr. Mease.

A letter from G. W. P. Custis, enclosing a lock of wool, from the native sheep of Smith's Island.

* See Archives of Useful Knowledge.

A letter from C. Kirk, of Yorktown, Pennsylvania, stating the utility of clay and sand in meliorating soils.

A letter from Mons. Thouin, of Paris, referred to in Minutes of December 13th.

Queries on fruit trees, by Mr. Peters.

Mr. Philips stated that Mr. Stackhouse, of Bucks county, told him, a farmer near the "Four Lanes End," in Bucks county, was famous for always having a good crop of peaches; and that his method was to plough his orchard twice every year. Sometimes taking a crop off the ground, and sometimes omitting to do so. Mr. P. said he had found some varieties of peach trees to thrive much better in certain soils than others—that slaked lime not only had a good effect in promoting the growth of peach trees (as noticed in his letter published in the Agricultural Memoirs), but also in causing rose bushes to flourish—that he had cultivated a peach called the Algerine peach, from the nursery of Samuel Coles, of Moore's Town, N. Jersey, which is green on the 20th November. They are pulled late and ripened in the house. And that Mr. Coles told him they would keep till January. He was prevented from trying the experiment, as they were stolen off the tree.

Mr. G. Hamilton stated that Mr. Maclure told him there is a kind of musk melon, in Spain, that will keep many months, and that he had eaten them on his passage several weeks after being pulled.

Mr. H. also stated that the following method of procuring potatoes early was followed near Philadelphia. Plant potatoes in September, and, at the eve of winter, lay down the tops, and cover them with long manure, and when the frost is out of the ground, in the spring, the potatoes may be dug.

John Palmer and Ralph Edowes were elected resident members of the Society—and Andrew Michaux, of Paris, an honorary member. Also, Thomas Moore, of Montgomery county, do.

City of Philadelphia,

Philosophical Hall, March 1, 1809.

Present: Mr. Vaughan, Lang, Heiss, Mease.—No quorum.

Read Mr. Lang's observations on Mr. Philips' paper on onions.

Mr. Jon. Roberts' letter to Dr. Mease, on corn.

Mr. Jacob Shearer's letter to do. on do.

A printed memoir on planting hedges, and one on the mode of cultivating vines, pursued at the nursery of Luxembourg, near Paris, were presented by Mr. A. Michaux.

Mr. Heiss mentioned that the softest plaster of Paris, which was found generally in the hold of the vessel loaded with that substance is the strongest; and that gritty plaster is not good; that Mr. Diehl, of Port Penn, told him, that his mother always boiled new milk before setting it away for cream, experience having taught her that the butter from such cream was better and more yellow than that resulting from cream collected in the usual way. The skin that rises to the top must be thrown away.

Mr. Vaughan mentioned that Mr. Jos. Priestley found great benefit from spreading buckwheat straw over wheat and grass in the autumn, very thin. The difference between the appearance of crops, thus treated, and of others, not so covered, was very great.

Mr. Heiss mentioned that French gypsum does not act until the second summer. This fact appeared in a field plastered with it by Mr. Colman, of Lancaster; while in another field, manured by a Mr. Whiteman, adjoining thereto, with Nova Scotia gypsum, the effects were seen the first year.

City of Philadelphia,

Philosophical Hall, April, 1809.

Present: Mr. R. Peters, Clymer, Hodgdon, Miller, Mease, Vaughan, Lang.

A letter from A. Robinson, of Stratham, New Hampshire, on planting hedges, was read.

A letter from John Knight, of Middletown, Delaware, was read. He wished to know whether he could become a member.

Mr. Clymer proposed Theophilus Harris and Ab. M. Garrigues as resident members.

Mr. Lang proposed John Mills, of Newland township, Chester Co., as an honorary member.

City of Philadelphia,

Philosophical Hall, May 19, 1809.

Present: Mr. Clymer, Lang, Philips, Heiss, Mease.

A letter from Z. Hollingsworth to R. Peters, was read, on the insect that destroys the roots of wheat. Some bunches of wheat were sent by Mr. H., which had been injured by them.

Mr. Heiss said that Mr. M'Calla, who formerly lived at Jenkintown, and now at the Falls of Schuylkill, first told him of the superiority of crops of both oats and barley, which had been grown upon ground ploughed in the autumn preceding their being sown.

Mr. M'Calla said that he had sown oats in this way for some years in succession, and that the last year it was so rank as to lodge.

Mr. H. referred to Dr. M. to prove that he had mentioned these facts several years since.

Mr. Lang said that the practice was common in England.

Mr. Heiss said he had this year made a comparative experiment, by only harrowing and seeding half a field upon a fall ploughing, and by ploughing the other half this spring, and will detail the result.

Dr. Mease said, that harrowing in barley and oats, is stated by Mr. A. Young, in his Survey of Essex, to be the improved practice of that county.

Mr. Heiss said that his lucerne was now eighteen inches high.

Mr. Lang said he had cut his little patch yesterday.

Dr. M. stated the practice of Mr. Dotman Basse, of Beaver county, Pennsylvania, who sows lucerne seed and clover together: the clover served as a covering crop to the lucerne, which finally took possession of the ground. In a sandy soil, at Burlington, he saw half an acre, late in October, 1806, with lucerne, which had then a good bite, and been cut three times that year.

Mr. Heiss said he tied up his stock in sheds, in the barn yard, and fed them with cut grass.

Mr. Philips said he had tried the practice last year, without success, and was forced to abandon it, the cows refusing to eat the grass. Upon inquiry, it appeared that—1. He had only one kind of grass for his cows—2. He gave them too much at a time—3. Wicked cows or quarrelsome cows drove the more quiet from the stalls.

Dr. M. said, that in the Farmers' Magazine there was an experiment given to show that soiled cattle improved more in a given space of time than cattle that pastured, and that he had himself kept up his cattle until July, without any diminution of their milk: he was then obliged to turn them out for want of sheds to protect them.

Theoph. Harris and Ab. M. Garrigues were elected resident members; and John Mills, of Chester county, an honorary member. (He died 1811.)

City of Philadelphia,

Philosophical Hall, June 13, 1809.

Present: Mr. Clymer, James, Lang, Vaughan, Heiss, Mease.

The following papers were read:

A letter from Col. Taylor, of Virginia, to the Secretary, was read, containing an account of the use of gypsum in a variety of ways, and of sundry experiments now making, with remarks on the same, by Mr. Peters.

A letter from Samuel Preston, of Stockport, in Wayne county, Pennsylvania, on fruit trees, in reply to queries published by the Society.

Mr. Lang exhibited two specimens of lucerne of the second year, one of which was from a patch left uncut when the rest was mowed, on the 5th May; and the other was a second crop, cut on the 12th inst.

Mr. Heiss said, that in Germany it was the custom to spread straw on lucerne in the autumn, and to rake it off in the spring: this practice kept weeds from growing: and that a farmer of his acquaintance always prefers putting a little gypsum in the hole in which he plants corn, to strewing it when the plants are up.

July.—No meeting.

City of Philadelphia,

Philosophical Hall, August 15, 1809.

Present: Mr. Clymer, Hodgdon, Lang, James, Vaughan.

The following papers were read:

A letter from Mr. Thouin, of Paris, dated Feb. 1, 1809—with a parcel of seeds.

A letter from Mr. Sylvestre, of 29th May, 1809, Sec. to Agric. Soc. Paris—with the Memoirs of the Society.

A letter from Mr. Armstrong, dated Paris, Jan. 25, 1809, with a Memoir, from Mr. Cubieres, of Versailles, on the lettis or nettle tree.

A letter from Mr. Michaux, Paris, 15th May, giving thanks for his election as an honorary member of the Society.

A letter from D. B. Warden, Paris, accompanying various specimens of rice from the Isle of France.

A letter from Mr. Peters, on the manufactory of agricultural implements, under the patronage of the Society.

September.—No meeting.

City of Philadelphia,

Philosophical Hall, October 9, 1809.

Present: Mr. Clymer, Mease, N. Sellers, Lang, Vaughan.

The following paper was read:

A letter from S. H. Smith to Dr. Mease, on the subject of bees.

The President was requested to answer the letter of M. De Cubieres, and acknowledge the receipt of his pamphlet,—also the letter from M. Sylvestre, and the receipt of the Memoirs of the Soc. Paris.

Mr. John Gardner, jr., Eliston Perot and George Esher, were proposed as resident members; the two first by Mr. Peters, and the last by Mr. Clymer, at the request of Mr. M'Call. Mr. De Cubieres and M. Sylvestre were proposed as honorary members, by Mr. Peters.

City of Philadelphia,

Philosophical Hall, November 13, 1809.

Present: Mr. Clymer, Mease, Peters, Hodgdon, James.

The following papers were read:

Two letters from S. Preston, on fruit trees.

A memoir on planting *fruit trees*, by M. De Lormerie.

On motion, *Resolved*, That the President of the Agricultural Society be requested to revise his Treatise on Gypsum, and to omit all those parts which he may deem unnecessary to be retained, by reason of the experience of our farmers, and generally to adapt it to the present state of our knowledge on the subject, for the purpose of insertion in the next volume of Agricultural Memoirs.

City of Philadelphia,.

Philosophical Hall, December 12, 1809.

Present: Mr. Clymer, Lang, C. Lownes, Hodgdon, Miller, Hamilton, Cloud, Philips, Burd, Biddle, Heiss. Jas. Kelton, from Chester county.

The following papers were read:

On extirpating garlic, by Mr. Peters.

A letter from Osborn Sprigg, of Maryland, to Dr. Mease, on his breed of sheep.

A copy of the Trans. Soc. Arts, N. York, was presented to the Society, by the President, Mr. R. R. Livingston.

Mr. Sylvestre, Mr. De Cubieres and George Esher were elected.

Daniel Buckley, of Lancaster county, and Edward Duffield, of Lower Dublin, Philadelphia county, were proposed as honorary members—the first by Dr. Mease, the last by Mr. Philips.

Mr. Miller took out Trans. Soc. Arts, vol. 2. [Returned March 13, 1810.]

City of Philadelphia,

Philosophical Hall, January 9, 1810.

Present: Mr. R. Peters, Vaughan, Clymer, Poulson, Mease, Wm. Young, Delaware; Hamilton, Miers, Fisher, Hodgdon, Lang, Dupont, from Brandywine.

A letter from Paul Busti to Dr. Mease, on *garlic*, was read.

This being an annual meeting, the Society proceeded to choose officers, and to organize itself under the act of incorporation passed by the Legislature last winter.

The following officers were chosen:—

President, Richard Peters; Vice President, George Clymer; Treasurer, Samuel Hodgdon, Secretary, James Mease.

Committee of Correspondence and Accounts:—

R. Peters, Geo. Clymer, J. Vaughan, Joseph Cloud, James Mease.

It was resolved to continue the seal which had hitherto been used by the Society.

The laws were all read, and the following alterations and additions made.

The members of the [Law X.] Society shall be distinguished into *resident, honorary* and *contributing members.*

Resident members shall consist of persons residing within a convenient distance to attend the meetings of the Society at Philadelphia, and these defined to be such only as, at the time of election, reside within ten miles of the said city, on either side of the Delaware. All members of agricultural societies, in other States and counties, with whom we shall correspond; and all persons of this State, and of other States and counties, who shall be elected by us for the purpose, shall be *honorary members*, and are hereby invited to assist at our meetings, whenever they come to Philadelphia. Strangers, who desire to be present as auditors, may be introduced by a resident member.

Honorary contributing members are of the description hereafter mentioned.

Every citizen contributing and paying into the hands of the Treasurer, a sum not less than fifty dollars, may be elected, agreeably to the rules, an honorary member, without regard to place of residence. Those who thus laudably enable us to extend the usefulness of the Society, and promote its objects, are invited to assist at our meetings. They are styled *Honorary Contributing Members.*

All donations and bequests, for general purposes, shall be faithfully used, and regular accounts kept of their application. Such donations or bequests as are given, granted, made or devised, on terms directing their being used in, or applied to any particular branch or branches of husbandry, or rural economy, or subjects connected therewith, shall, with all due fidelity, be so used or applied; and if they, or any of them, shall not be, at the time, sufficient to accomplish the object designated, in whole or in part, they and every of them shall be placed in a situation, if practicable, to accumulate, until, by additions of other means, the object intended can be effectuated.

The names and amount and description of donations of all citizens contributing pecuniary or other donations of any amount or description whatever, shall be registered in a role kept for that general purpose. They will merit and receive the thanks of the Society for the patriotism and public spirit evinced by their thus affording the means of accomplishing the objects of our institution. The latter end of the XIth law, from the word "elected," was struck out.

Daniel Buckley and Edward Duffield were elected.

Charles Lewis, of Blockley, was proposed by Mr. Clymer.

General Armstrong and Daniel Parker, of Dravili, near Paris, by do.

Benjamin Waddington, of Bath, England, by Mr. Hodgdon, and Mr. Esher, of the Northern Liberties, by Dr. Mease.

City of Philadelphia,

Philosophical Hall, February 13, 1810.

Present: Mr. Clymer, Hodgdon, Buckley, Lang, Gillespy, Cloud, Poulson, Mease, Vaughan. Mr. Mead, of Millword, near Winchester, Virg., attended, introduced by Dr. Mease.

Wm. Esher, of the township of Penn, Philada. county, was elected.

Dr. Mease read an eulogium upon the late member, Wm. West, of Delaware county.

Mr. Mead showed various specimens of long combining wool, from his own flock, and also a lock from a broad tail Barbary ram, of Mr. Peters, of Georgetown, Potomac. The latter was hairy, but extremely soft and silky.

Thomas Bradford, sen., was proposed by Mr. Hodgdon.

On motion of Dr. Mease, it was resolved, unanimously, to present Col. John Taylor, of Virginia, with a gold medal, value $50, for his great exertions at hedging. (See Memoirs of the Society, vol. 1.)

City of Philadelphia,

Philosophical Hall, March 13, 1810.

Present: Mr. Clymer, Vaughan, M'Call, Lang, Cloud, Eckfeldt, Buckley, Peters, Miller, Wm. Young, of Delaware.

The following papers were read:—

Observation on the utility of shelter to fruit trees, against late frosts, by Edward Garrigues, Kingsess.

On soddy grass legs, star, hyacinth and blue bottle, by Mr. Peters.

On mildew, by Timothy Pickering.

On the recovery of worn out soils, by sowing oats as pasture, by Wm. Young, of Delaware.

On the utility of salt, as a manure, by Mr. Peters.

The following persons were elected members:

John Gardiner, jr., Elliston Perot—proposed Sept. 12.

Charles Lewis—proposed Jan. 1810.

Thos. Bradford, sen.—proposed Feb. 1811.

Robert Barclay, of London, was proposed; also, B. Hobhouse, Pres. Bath Agricultural Society, by Mr. Peters; A. M'Alister, of Dauphin county, by Mr. Buckley.—See below.

Mr. Eckfeldt produced a bottle of very lively, pleasant currant wine, which was much admired. He promised the receipt by the next meeting.

Mr. Mease stated that he had formed a contract with Johnson and Warner, for the purchase of the Memoirs of the Agricultural Society. They agreed to take the work at first cost, and to give a note for the amount at four months, and to publish the second volume, uniform with the first, giving the Society 60 copies. The terms were agreed to.

Mr. Miller returned the Trans. Soc. Arts, and took out 1 vol. Farmer's Magazine.

Reuben Haines and Charles J. Wistar, were also proposed by Mr. Peters.

Samuel D. Ingraham, Bucks county.

John Lorain, of Philadelphia.

Mr. Thouin, Professor of culture in the National Museum at Paris.

LIST OF THE MEMBERS

OF THE

PHILADELPHIA SOCIETY FOR PROMOTING AGRICULTURE.

RESIDENT MEMBERS.

Aston, Peter.
Anthony, Joseph.

Bordley, John B.
Bond, Thomas.
Burd, Edward.
Barclay, John.
Barge, Jacob.
Bradford, Wm.
Bache, Richard.
Bartram, Isaac.
Bartram, Moses.
Bartram, Wm.
Brown, Wm.
Barry, John.
Brannan, Benjamin.
Bingham, Wm.
Bunner, Andrew.

Clymer, George.
Cadwallader, John.
Cadwallader, Lambert.
Cooper, Joseph.
Clymer, Daniel.
Coxe, Tench.
Carson, Joseph.
Clarkson, Matthew.
Clifton, Wm.
Cummins, John.
Clifford, Thomas.
Cunningham, David H.

Dickinson, Philemon.
Duffield, Edward.
Doz, Andrew.
Drinker, Henry.
Dickinson, John.
Delany, Sharp.
Dunlap, John.
De Courcey, Edward.
Dunn, Budd.
Donaldson, John.
Donaldson, Arthur.

Edwards, Enoch.
Ellis, Col. Joseph.
Evans, David.

Francis, Tench.
Fox, George.
Forman, Ezekiel.
Fitzsimmons, Thomas.
Falconer, Nathl.
Franklin, Thomas.
Franklin, Benjamin.
Ferree, Joseph.
Ferguson, Hugh.
Field, John.
Fisher, Miers.
Fisher, Wm.
Foulke, Dr. John.

Gray, George.
Garrigues, Samuel.
Griffitts, S. P. (Phys.)
Gray, Isaac.
Gurney, Francis.
Glentworth, Dr. George.
Gibbs, Josiah W.
Gill, John, Esq.

Hill, Henry.
Howell, Samuel.
Hollingsworth, Levi.
Humphreys, Charles.
Howell, Joshua.
Hall, Wm. (Printer.)
Hillegas, Michael.
Hodgdon, Samuel.
Hewes, Josiah.
Haines, Reuben.
Hudson, Samuel.
Hiltzheimer, Jacob.
Heister, Daniel.
Horton, Azariah.
Hare, Robert.
Hodge, Hugh.

Holker, John.
Howell, Samuel, jr.
Hamilton, Wm.
Haworth, John.
Harrison, Joseph.

Irwin, Robert.
Ingraham, Duncan, jr.

Jones, John. (Phys.)
Jones, Wm. (Grazier.)
James, Chockley.
Jackson, David.
Jackson, Wm.
Johnston, Francis.

Kuhn, Adam. (Phys.)
Keen, Reynold.

Logan, George.
Logan, James.
Lukens, John.
Lewis, Wm.
Lardner, John.
Lewis, Mordecai.
Lake, Richard.
Le Couteulx, Mr.

Morgan, George.
Morris, Robert.
Meredith, Samuel.
Macpherson, Wm.
Morgan, John. (Phys.)
Mifflin, Thomas.
Milnor, Edward.
Morris, John. (Phys.)
Mifflin, John F.
Milligan, Robert.
Marshall, Humphry.
Morgan, Jacob.
Miles, Samuel.
Morris, Samuel.
Morris, Thomas.
M'Kean, Thomas.
Morris, Luke.
Morris, Cadwallader.
Mifflin George.
Mifflin Joseph.
Mifflin, Jonathan.
Melcher, Isaac.
Morris, Wm.
Morris, Luke, jr.
Muhlenburgh, Peter.
Millar, John, jr.

Nixon, John.
Nesbit, John M.
Nesbit, Alexander.
Nicholson, John, Esq.

Obrien, Michael M.
Ogden, Joseph.

Powell, Samuel.
Peters, Richard.
Penn, John, jr.
Pickering, Timothy.
Penn, John, sen.
Paschall, Stephen, jr.
Parke, Dr.
Penrose, Thomas.
Physick, Edmund.
Prior, Thomas.
Pleasants, Samuel.
Phile, Frederick.
Pilmore, Rev. Joseph.

Rush, Benjamin.
Roberts, George.
Ross, John.
Roberts, Robert.
Rush, Jacob.
Redman, Joseph.
Ruston, Thomas.
Ryerson, Thomas.
Rush, Wm.
Robinson, Wm. Esq.

Shippen, Edward.
Sellers, John.
Salter, John.
Sellers, David.
Smith, John. (Walnut st.)
St. Clair, Arthur.
Shipley, Wm.
Swanwick, John.
Shee, John.
Smith, Wm. W.
Sellers, Nathan.
Swift, Joseph.
Smythe, Frederick.
Sellers, Wm.
Stanly, Wm.
Stoneburner, Leonard.
Say, Dr. Benjamin.

Thompson, Charles.
Twells, Godfrey.

Vaughan, Samuel.
Vaughan, John.
Vaughan, Samuel, jr.
Vaughan, Charles.

Wilson, James.
Willing, Thomas.
Wells, Richard.
Willing, Richard.
White, Dr. Wm.
Wilcocks, John.
Wister, Richard.
Wyncoop, Benjamin.
Wistar, Caspar. (Phys.)

HONORARY MEMBERS.

Armstrong, John, Esq. Carlisle.
Atlee, Samuel J. Esq. Lancaster.

Browne, Robert, Maryland.
Boudinot, Elias, Esq. New Jersey.
Bowdoin, James, Esq. Massachusetts.
Bee, Thomas, Esq. South Carolina.
Burke, Æodanus, Esq. do.
Bannister, John, Esq. Virginia.
Blake, ———, Esq. Island of Jamaica.
Belknap, Rev. Jeremy, Dover, New Hampshire.
Biddle, Charles, Esq. Vice President of Pennsylvania.
Brodhead, Daniel, Esq. Reading.
Bird, Mark.
Beverly, Robert, Esq. Blandford, Va.
Brackenridge, Hugh, Esq.
Ballach, James, Esq. Dover, Delaware.
Bracken, Rev. John, Virginia.
Blair, Hon. John, Esq. Williamsburgh, Virginia.

Coats, Lindsey, Montgomery county.
Clinton, George, Esq. New York.
Carrol, Daniel, Esq. Maryland.
Carrol, Charles, Esq. Carrolton, Maryland.
Collins, John, Esq. Rhode Island.
Curwen, John, Esq. Chester county.
Carrington, Edward, Esq. Virginia.
Castiglioni, Count.
Coburn, John, Esq. Kentucky.
Coates, Dr. John, Eastern Shore, Md.
Carridine, Thomas, Esq. Queen Ann's county, Maryland.
Carter, Charles, Esq. Virginia.

Duane, James, Esq. New York.
Dexter, Dr. Aaron, Massachusetts.
De Courcey, Edward, Maryland.
Dougherty, Bernard, Pennsylvania.
De Rochefontaine, Mons. Champagne, France.

Earle, Michael, Maryland.
Ewing, James, Esq. York county.
Embleton, Wm. Howell's Point, Md.
Evans, Samuel.

Floyd, Wm. Esq. Long Island.
Fitzhugh, Wm. Esq. Chatham, Virginia.
Finly, Wm. Esq. Westmoreland county.
Franklin, W. Temple.
Fry, Col. Henry, Mohawk river.

Greene, Gen. Nathaniel, Rhode Island.
Gray, Adam, Maryland.
Geddes, Wm. Esq. Delaware.
Griffiths, Rev. David, Virginia.
Gough, Henry Dorsey, Esq. Maryland.
Greenleaf, Joseph, Esq. Boston.
Gardner, Nathaniel, Esq. Suffolk county, Long Island.
Gilpin, Jno. Barnard, Lower Dublin, Philadelphia county.
Griffin, Wm. Esq. Virginia.

Hand, Edward, Esq. Lancaster.
Henry, Wm. Esq. do.
Hemsley, Wm. Queen Ann's county, Maryland.
Hindman, Wm. Esq. Maryland.
Hughes, Samuel, Esq. do.
Howard, Wm. Esq. Baltimore.
Howard, Wm. Esq. Maryland.
Holt, Wm. Esq. Virginia.
Hale, Samuel, Esq. Portsmouth, New Hampshire.
Hunter, Rev. Andrew, New Jersey.
Hunt, Abraham, Trenton, do.

Irvine, Wm. Esq. Carlisle.
Izard, Ralph, Esq. South Carolina.

Jay, John, Esq. New York.
Jennings, Edmund, Esq. London.

Kidd, John, Bucks county.
Knox, Henry, Esq.
Killing, Wm. Esq. Dover, Delaware.
Kirkbride, Joseph, Esq. Bordentown, N. Jersey.

Livingston, Wm. Esq. New Jersey.
Livingston, Robert R. Esq. N. York.
Lincoln, Benj. Esq. Massachusetts.
Logan, Charles, Virginia.
Lloyd, Edwd. Esq. Maryland.
Langdon, John, Esq. President of New Hampshire.
Lockerman, Vincent, Dover, Delaware.
Lewis, Warner, Esq. Williamsburgh, Va.

Morris, Governeur, Esq.
Maclay, Wm. Esq. Northumberland Co.
Montgomery, John, Esq. Carlisle.
Magaw, Robert, Esq. do.
Miller, Henry, Esq. York county.
Morris, James, Montgomery county.
Muhlenburgh, Fredk. A. do.
Milward, Thomas, Island of Jamaica.
Mead, Richard, Virginia.
Maclintock, Rev. Samuel, Greenland, New Hampshire.
Moore, Alpheus, Esq. Keene, county of Cheshire, New Hampshire.
Morris, Lewis Richard, Esq. Springfield, county of Windsor, Vermont.
Maclay, Saml. Esq. Northumberland Co.

M'Coombs, Eleazer, Esq. Dover, Delaware.

Nevil, Gen.
Nichols, Francis, Pottsgrove.
Neale, Rev. Leonard, Port Tobacco, Md.

Okely, John, Esq. Bethlehem, Northampton county.
Ogden, John Cosens, New Haven, Con.
Ogden, Samuel, Esq. Bucks county.

Phillips, Saml. jr. Esq. Massachusetts.
Pickering, John, Esq. do.
Paca, Wm. Esq. Maryland.
Paine, Thomas, Esq.
Potts, Samuel, Pottsgrove.
Pine, ———, Burlington county, N. J.
Penn, Richard, Kingdom of G. Britain.
Pasture, Dr. Wm. Williamsburgh, Va.
Page, Mann, Esq. Virginia.
Patton, Maj. John, Dover, Delaware.
Porter, Col. Andrew, Chester county.

Rutledge, John, Esq. South Carolina.
Rogers, Nicholas, Baltimore.
Riché, Thomas, Bucks county.
Renselaer, Philip, Albany, New York.
Renselaer, Jeremiah Van, Esq. do.
Ross, Maj. David, Maryland.
Reed, James R. Esq. Cumberland Co.

Shippen, Joseph, jr.
Singleton, John, Maryland.
Spriggs, Richard, do.
Slough, Matthias, Esq. Lancaster.
Schuyler, Philip, Esq. New York.
Steuben, Baron de.
Smith, Rev. Robert, South Carolina.
Swift, John, Esq. Bucks county.
Sykes, James, Esq. Dover, Delaware.
Stockton, Richard, Esq. Princeton, New Jersey.

Tilghman, James, Esq. Maryland, Kent county.
Thornhill, Edward, Kingdom of Great Britain.
Tilton, Dr. James, Dover, State of Del.
Table, Philip, Esq. Gloucester, Va.

Vaux, James, Philadelphia county.
Vardon, Daniel, Esq. Whitehall, N. J.

Wayne, Anthony, Esq. Chester county.
Wadsworth, Jer. Esq. Connecticut.
Wingate, Paine, Esq. New Hampshire.
Washington, John Augustus, Esq. Va.
Wolcot, Oliver, Esq. Connecticut.
Warren, Dr. John, Massachusetts.
Waterhouse, Dr. do.
Wynkoop, Henry, Esq. Bucks county.
Washington, Gen. George, Virginia.
Winey, Jacob, Reading, Berks county.
Williams, Jonathan, jr. Boston.
Willing, Charles, Chester county.
Wilkinson, James, Esq. Kentucky.
Wynkoop, Gerardus.
Wheeler, Samuel.
Winder, Wm. Esq. Eastern Shore, Md.
Webster, Noah, jr. Esq.
Wall, Richard, Burlington county, N. J.
Washington, Bushrod, Esq. Westmoreland county, Virginia.
Woodford, ———, Fequiere county, Va.
Wistar, Caspar, Chester county.